

*George Fox  
College*

## **THE COVER**

### **(A foreword to prospective students)**

Did you get the thought? The old planet swirls through space, time flies, change is continuous, and what about you? Getting it all together?

The educated person adjusts to change and produces change. We search for principles and values in change. We change to remain relevant, and yet what is not changing may be more relevant. How do you get it all together?

The cartoon character, Pogo, said, "We have confronted the enemy and he is us." We get ourselves together first. Man is an intellect but he is more. The cover suggests some of these dimensions.

We have a campus of persons engaged in these concerns. Action and reflection—personal research and sharing—knowledge and skills—this is college.

## **GET IN TOUCH**

The best way to assess the college is to visit. Introduce yourself by a letter or telephone call, and our admissions team will arrange for you to see our facilities and talk with members of our college community, with perhaps an overnight stay. Offices are open 8 a.m. to 5 p.m. on Monday through Friday, except for special days, and on Saturday by appointment. An admissions counselor is available in most Far West states to visit your school, home, or church.

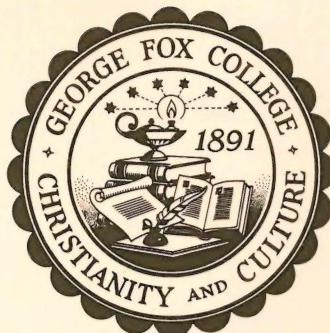
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# **GEORGE FOX COLLEGE**

## **Catalog and Announcements**

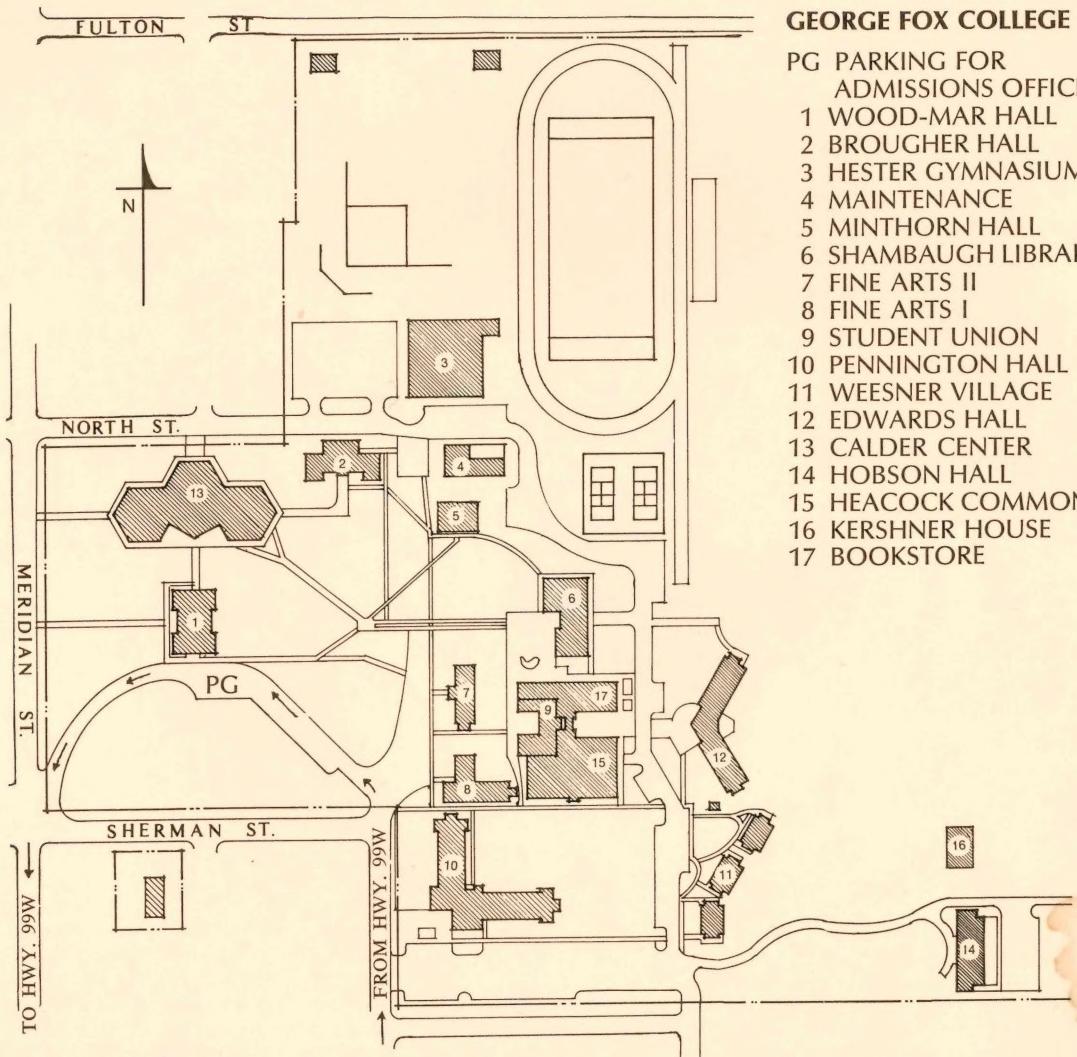
**\*1976-1978**



**GEORGE FOX COLLEGE  
NEWBERG, OREGON 97132**

**\*NOTE:** The catalog is issued in early fall for informational value to high school seniors. Thus it is issued one year prior to the dates covered. Please read "College Guarantees" and "College Reservations" noted in the Index. A "Class Schedule" is issued by the Registrar's Office prior to each college year.

# Campus Directory



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# Calendars 1976-1978

## SEPTEMBER 1976

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## FEBRUARY 1977

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## MARCH 1977

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## JULY 1977

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## AUGUST 1977

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## SEPTEMBER 1977

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## OCTOBER 1977

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## NOVEMBER 1977

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## DECEMBER 1977

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27	28	29	30	31	

# College Calendar

## SEPTEMBER TERM

Faculty conferences  
\*Miniterm experiences

## FALL TERM

Residence halls open to new students, noon  
New Student-Parents Convocation, 3:00 p.m.  
New students sessions and registration  
Residence halls open to returning students, 2:00 p.m.  
Final registration of returning students  
Classes begin, 8:00 a.m.  
Late registration and change fee effective  
Last day to add classes  
Thanksgiving vacation  
Classes continue  
Fall term classes end, 5:00 p.m.  
Residence halls close, 11:00 a.m.

## WINTER TERM

Residence halls open, 1:00 p.m.  
Registration of new students, 8:00 a.m.  
Classes begin, 8:00 a.m.  
Late registration and change fee effective  
Last day to add classes  
Classes end, 5:00 p.m.  
Residence halls close, 11:00 a.m.

## SPRING TERM

Residence halls open, 1:00 p.m.  
Registration of new students, 8:00 a.m.

## 1976-77    1977-78

Sept. 20-24	Sept. 19-23
Sept. 27-	Sept. 26-30
	Oct. 1
Oct. 3	Oct. 2
Oct. 3	Oct. 2
Oct. 3-6	Oct. 2-5
Oct. 5	Oct. 4
Oct. 6	Oct. 5
Oct. 7	Oct. 6
Oct. 15	Oct. 14
Nov. 25	Nov. 24
Nov. 26	Nov. 25
Dec. 17	Dec. 16
Dec. 18	Dec. 17

Classes begin, 8:00 a.m.
Late registration and change fee effective
Last day to add classes
Classes end, 5:00 p.m.
Baccalaureate, 10:30 a.m.
Commencement, 2:00 p.m.
Residence halls close, 5:00 p.m.

1976-77	1977-78
Mar. 21	Mar. 20
Mar. 21	Mar. 20
Mar. 28	Mar. 27
May 27	May 26
May 28	May 27
May 28	May 27
May 28	May 27

MEAL SERVICE: Fall Term—Evening of October 3 (2) to morning of December 18 (17); Winter Term—Evening of January 2 (2) to morning of March 12 (11); Spring Term—Evening of March 20 (19) to noon of May 28 (27).

\*The miniterm week in September for the purpose of innovative learning experiences involving students and faculty is a varied venture. Announcement of program is made in the spring of each year.



# Why a Christian College?

What do you expect from your education? Does the Christian college really offer something vital and unavailable in a secular institution? C. S. Lewis, formerly of Oxford and Cambridge Universities, states that all moral concerns may be identified under a threefold analysis of a ship in a convoy: one, the mechanical condition of the ship itself (Is the ship capable of the sailing?); two, the relation of the ship to the convoy (Is the ship capable of the group function?); and three, the ultimate destination to be achieved (Where is the fleet attempting to go?).

Education has the same three concerns, or should have, for education is essentially a moral enterprise. Consider the ship itself or the individual. Vocational education features economic independence and skills to contributes to society. Liberal arts education stresses liberating from ignorance, provincialism, and materialism to a maximum personal potential. George Fox College accepts both as important.

Consider the ship in convoy. Some education ignores the convoy and says, "do your own thing." Other education (indoctrination, training) may lead to a complete bondage to expectations of the group. The Swiss Christian psychiatrist, Dr. Paul Tournier, has written a book titled *The Whole Person in a Broken World*. The title suggests this second purpose of education, which is to build toward personal wholeness while engaged in restoration of a broken society.

Consider the purpose of the sailing. What is the meaning of human life? For what is man? If the educational concentration is solely on the functioning of the ship and the

maintenance of the convoy but with despair or confusion toward values and objectives, then that education is not only secular but partial.

"Putting it all together" has long been the rationale of the Christian college. "The mission of the evangelical college is nothing less than to make known the whole truth for the whole man for new life in a new world," states Dr. Carl F. H. Henry. "The overall purpose of the evangelical college, as a distinct type of institution, is to present the whole truth, with a view to the rational integration of learning in the context of the 'Judeo-Christian' revelation, and to promote the realization of Christian values in student character."

Ambitious? Of course, but if the facts are straight and you have but one life to live, then the attempt is obligatory. Idealistic? Right again, but certainly within the range of human effort. It is this "ethical excitement" that can give new dimensions to your college experience. Learning and Christian faith in a creative harmony spark George Fox College. The educational validity is guaranteed by a faculty over half of whom have earned doctorates. The Christian authenticity is maintained by a critical but supportive student body.



# The College

## CHURCH RELATIONS

Early Quaker settlers in the Willamette Valley of western Oregon founded Pacific Academy at Newberg in 1885. Six years later, more advanced education was provided by the establishment of Pacific College. Pacific Academy was discontinued in 1930, and Pacific College was renamed George Fox College in 1949, honoring the founder of Quakerism.

The college is governed by a Board of Trustees elected by Northwest Yearly Meeting of Friends Church, which has historically emphasized: the necessity of a genuinely experiential religious faith, the spiritual nature of the ordinances, the importance of peace-making and responsible social action, and the freedom for individuals to exercise liberty of conscience. With other Christians, the college holds the great, historic truths of Christianity including: the deity of Jesus Christ, the authority and inspiration of the Holy Scriptures, the necessity of salvation for man, and the present ministry of the Holy Spirit.

Denominations other than Friends support George Fox College. Denominations represented with enrollment of ten or more students include in order: Evangelical Church of North America, Baptist, Free Methodist, Nazarene, Presbyterian, and United Methodist. The college welcomes people regardless of "race, color, or creed" who wish to pursue the values stated in this catalog.

## ACCREDITATION AND MEMBERSHIPS

George Fox College is accredited by the Northwest Association of Secondary and

Higher Schools, and by the Oregon Teacher Standards and Practices Commission for the preparation of secondary teachers in specific fields. It is approved by the Oregon State System of Higher Education for the training of elementary teachers in conjunction with the Oregon College of Education in a joint-degree program, by the Federal Government and the State of Oregon for the education of veterans, by the United States Attorney General for the admission of alien students, and by the American Association of University Women.

The college holds memberships in the Christian College Consortium, College Entrance Examination Board, the College Scholarship Service, the Council for the Advancement of Small Colleges, the Friends Council on Education, the National Association of Evangelicals, the Northwest Association of Private Colleges and Universities, and the Oregon Independent College Association and Foundation.

## KOTZEBUE CENTER

The outreach of George Fox College education has extended north to the Arctic Circle with the development of an extension campus in the Eskimo community of Kotzebue in northwest Alaska in 1972. The Kotzebue Center program of extension classes was organized in cooperation with Alaska Yearly Meeting of Friends, an indigenous group of a dozen native Eskimo churches, and Alaska Friends Mission and Friends Bible Training School sponsored by California Yearly Meeting of Friends.

The program utilizes selected college faculty personnel in miniterm concentrated class schedules, providing liberal arts college credit in the Eskimo community. Supplementing the class schedules are several programmed courses by electronic audiovisual self-instruction and possibilities of credit by examination.

## **CONSORTIA**

The college is associated with eleven other regionally accredited colleges in the Christian College Consortium. The consortium promotes these objectives: "articulation of the unique contributions that dynamic Christian higher education can make to contemporary society; development of cooperative institutional programs for faculties, students, and administrators; encouragement of research and study among evangelical scholars on the integration of the Christian faith and academic learning; increase of educational and development opportunities for students from evangelical Christian colleges; design of research activities to evaluate educational programs; promotion of activities to improve the management and efficiency of member institutions; and expansion of financial and educational resources available to evangelical Christian colleges."

Other members of the consortium are: Bethel College, St. Paul, Minnesota; Eastern Mennonite College, Harrisonburg, Virginia; Gordon College, Wenham, Massachusetts; Greenville College, Greenville, Illinois; Houghton College, Houghton, New York; Malone College, Canton, Ohio; Messiah Col-

lege, Grantham, Pennsylvania; Seattle Pacific College, Seattle, Washington; Taylor University, Upland, Indiana; Westmont College, Santa Barbara, California; and Wheaton College, Wheaton, Illinois.

Locally, the college is associated with Warner Pacific College of Portland in a limited consortium incorporated as the Associated Christian Colleges of Oregon (ACCO). As cooperative programs are adopted, both campuses are assisted in economies, efficiencies, and academic betterment. A bibliographic center sponsored by ACCO makes the holdings of five small college libraries available to each campus, virtually on a daily basis.

Although not technically a consortium, similar benefits come to the college through the Council for the Advancement of Small Colleges, "a national, voluntary association dedicated to the promotion and advancement of small, independent private colleges of liberal arts and sciences in their historic and vital contribution to ethical, moral, and spiritual values."

## **EDUCATIONAL PHILOSOPHY**

The George Fox College program is set within the framework of Christian higher education and aims to provide liberal arts and preprofessional training in a setting that is vitally Christian, intellectually vigorous, socially wholesome, and physically healthful. It is assumed that sound scholarship and Christian faith and experience are mutually interdependent and meaningful, and that sound education must correlate these in the

growing experience of the student. High scholastic achievement is to be combined with Christian faith and culture in the development of citizenship and leadership for family, church, and state in a democratic society.

## COLLEGE OBJECTIVES

In harmony with its philosophy of education, George Fox College has identified institutional objectives that provide academic, religious and moral, and social needs:

1. Teach all truth as God's truth, integrating all fields of learning around the person and work of Jesus Christ, bringing the divine revelations through sense, reason, and intuition to the confirming test of Scripture. "All scripture is inspired by God and profitable for teaching, for reproof, for correction, and for training in righteousness, that the man of God may be complete, equipped for every good work." (2 Timothy 3:16-17)

2. Support academic programs that liberate the student for a life of purpose and fulfillment through an awareness of the resources of knowledge and culture available to him; maximize career-oriented education through counseling, curriculum, field experience, and placement.

3. Maintain a program of varied activities that directs the student to a commitment to Christ as Lord and Savior, encourages attitudes of reverence and devotion toward God, leads to recognition that the revealed commandments of God are the supreme criteria of the good life, enables the student to mirror the example of Christ in human relationships, develops a greater desire to serve mankind in a spirit of Christian love, and brings the student to a life of obedience to "the law of the Spirit of life in Christ Jesus" that will set him morally free (Romans 8:2).

4. Provide a center for Quaker leadership where faculty and students learn the history and Christian

doctrines of the Friends movement and make contemporary applications of these insights.

5. Give leadership to evangelical Christianity generally, through scholarly publication, lecturing, and by evangelistic and prophetic proclamation and service.

6. Promote cocurricular activities that will emphasize the development of leadership, initiative, and teamwork by giving opportunity to make practical use of the skills and ideas acquired through academic courses.

7. Make itself a community in which studies and activities are made relevant to life, develop insight into social and political issues confronting mankind, and learn to participate democratically in decision-making and policy-implementing as responsible citizens.

8. Serve as a cultural center for all publics of the college and sponsor programs that are informative and culturally stimulating to the larger college community.

## CAMPUS FACILITIES

George Fox College is located on a ninety-acre campus in a town of 9,000 a half-hour drive from Portland, Oregon. Fifteen buildings have been constructed or remodeled in the last fifteen years.

*Wood-Mar Hall* contains administrative offices, the chapel, and religion faculty offices.

*Minthorn Hall* is the only first-generation building yet in use. Completely remodeled and refurbished in 1962, it houses classrooms, offices, and an audiovisual center.

*Brougher Hall*, erected in 1947 and remodeled and enlarged in 1959 and 1961, contains physics laboratories, mathematics and art classrooms, and a shortwave radio station.

*Hester Memorial Gymnasium* has a collegiate-size floor, game room, body-building room, dressing rooms, and offices for both men's and women's physical education.

*Shambaugh Library*, dedicated in 1962, houses approximately 50,000 volumes on three floors. Its features include study carrels, rare book collections, microfilm room, music listening room, soundproof typing room, museum, audiovisual auditorium, seminar room, art and record collections, and the curriculum library.

*Smith Apartments* has five units for married students.

*Weesner Village* consists of twelve apartments designed for use by faculty or married students.

*Pennington Hall*, built in 1962, is a coeducational dormitory for 100 students. It provides an infirmary, a guest room, a soundproof study room, a central lounge, game rooms, and a head resident's apartment.

*Edwards Hall* is a residence hall for women constructed in 1964, overlooking Hess Canyon. It houses 104 students.

*Hobson Hall*, dedicated in 1968, is a residence hall for 74 men.

*Student Union*, built in 1958 and enlarged in 1968, includes a lounge, prayer room, snack area, bookstore, post office, TV room, game room, and offices for the student organizations.

*Heacock Commons*, built in 1964-65, adjoins the Student Union Building and provides a modern dining hall and kitchen.

*Calder Center*, built in the summer of 1964, is the combination of three hexagon modules providing eighteen classrooms for science, home economics, and foreign languages; nine offices for faculty members; and a lecture hall that seats 165 persons.

*Fine Arts Buildings I and II*, constructed in 1947, house classrooms, studios, practice rooms, the music listening lab, the electric piano lab, and faculty offices for the music department.

*Colcord Memorial Field* contains a track, football field, baseball diamond, and hockey field.

*Tennis Courts*, tournament type, were built in 1961.

*Camp Tilikum*, located on ninety acres in the Chehalem Valley some eight miles from campus, is a retreat, camping, and educational center. Students, church groups, families, and community organizations enjoy seventy-five acres of woods and meadows, a fifteen-acre lake, a lodge, and a barn for crafts and recreation.



# Academic Program

## DEGREES

George Fox College confers two degrees: the Bachelor of Arts and the Bachelor of Science. The differences may be seen on the next pages in the "General Education Requirements" and "Programs of Study." Specifically note in "The General Education Program" the subheading, "Symbolics and Tools."

## GENERAL EDUCATION

A college program consists of three basic components: general education, the major field, and supporting and/or elective courses. General education is sometimes called a core curriculum or general studies. It is that part of the college experience required of all graduates (although options may be permitted within the programs) which gives them a common heritage or shared learning.

It is in the general education program that the distinctives of a college are most readily seen, for through these courses the college hopes to realize its unique contribution to society, higher education, and the individual.

## MAJORS AND DIVISIONS

The curriculum includes beyond general education more than twenty majors or concentration areas organized within six divisions. (See the page, "Programs of Study," later in this chapter.) When registering for classes a student may indicate his general area of academic interest and begin study within the framework of this division. By the beginning of the junior year, a student must

indicate the specific subject in which he will concentrate during the junior and senior years.

Changes of program from one division to another are difficult to make after the sophomore year and often necessitate additional college work in summer sessions or a delay in graduation. Assistance in determining which division to enter is available from faculty advisors.

## ACADEMIC ADVISING

Each student is assigned an advisor for initial registration. This advisor may be changed by request as a student forms natural lines of helpfulness and acquaintance. Various teachers and administrators may serve as resource persons in guidance and counseling.

## GENERAL EDUCATION REQUIREMENTS

Total: 64-76 hours

Certain lower and upper division courses in general education are required of all students. The specified courses and the prescribed options listed below provide knowledge and skills in support of cultural perspectives and major programs. As some majors have specified the options stated below, the student should check the "Major Requirements" described for his selected major.

### Sources of the Common Life

28-35 hours

- A. *The Biblical Legacy* (one of the following required of freshmen through placement). Literature of the Bible (GE 101, 102, 103) or lower division Bible electives 9 hours

- B. The Cultural Legacy**
1. Survey of Art (GE 120) or Survey of Music (GE 110) 2 hours
  2. Choose sequence courses from two of the following groups: 8-12 hours each
- Literature:
- English Literature (Lit 201, 202)
  - Masterpieces of World Literature (Lit 251, 252)
  - English Augustan and Romantic Writers (Lit 320) and The American Literary Heritage (Lit 311, 312)
- Natural Science:
- General Biology (Bi 101, 102, 103)
  - General Chemistry (Ch 111, 112, 113)
  - Foundations of Physical Science (GSc 101, 102, 103)
  - General Physics (Ph 201, 202, 203)
- History:
- Civilizations (Hst 101, 102)
  - U.S. History (Hst 201, 202)
  - England (Hst 331, 332)
- Foreign Languages:
- Second or third year college-level foreign language

### Modes of Communication

19-21 hours

- A. The Effective Writer (Wr 111) and an elective from Lit 201, 202, 230, 251, 252, 254, 285 and CA 110, 111, 120, 200, 220, 221, 230. 8 hours
- B. Symbolics and Tools 11-13 hours
  - B.A. degree (choose one unless major specifies otherwise.)
    1. First-year foreign language (may be satisfied by proficiency test) 12 hours
    2. First-year music theory (required for music and music education) 12 hours
    3. Select 11-12 hours of the following: Critical Thinking and Decision Making (GE 100), Mathematical Tools for Problem Solving

(Mth 110), Statistical Procedures (Mth 240, Psy 340), Computer Programming. 11-12 hours

B.S. degree (Choose one unless major specifies otherwise.)

1. Critical Thinking and Decision Making (GE 100), Mathematical Tools for Problem Solving (Mth 110), plus either Statistical Procedures (Mth 240, Psy 340) or Computer Programming. 11-12 hours
2. Mathematics for Elementary Teachers (Mth 111, 112, 113), plus Statistical Procedures (Math 240). 13 hours
3. Calculus (Mth 121, 122, 123). 12 hours

### Patterns of Interpretation

19-23 hours

- A. Physical Education activities and/or Health Education (See page 57.) 6 hours
- B. Systems of Interpretation (Choose two of the following, exclusive of major area.) 7-8 hours
  1. General Psychology (Psy 201)
  2. Introduction of Philosophy (Phi 210)
  3. Principles of Economics (Econ 201)
  4. Principles of Sociology (Soc 201)
- C. Religion 6-9 hours
  1. Contemporary Religious Thought (R 490), required of all graduates, 3 hours
  2. History and Doctrine of Friends (R 360), required of all Friends students, 3 hours
  3. Upper division elective (3 or 4 hours) required of transfer students with junior standing who have not taken Literature of the Bible or equivalent.

### Special Considerations

1. Electives may be substituted for general education courses waived by examination.
2. Students in joint-degree programs of elementary education may waive the upper division religion requirement if the lower division requirement has been fulfilled.

3. Although instruction in German and French are not provided, the student entering with a background in either equal to the college-level second year may through examination complete a portion of the general education requirement.

## PROGRAMS OF STUDY

George Fox College confers two degrees: the Bachelor of Arts and the Bachelor of Science. The curriculum beyond general education is described graphically at right. For greater detail, turn to the catalog chapter for the division of your interest. Teaching field requirements may be found with Division One, Education.

## MAJORS

One of three tracks may be selected for a major:

1. An established major with requirements stated in the division chapter.

2. An interdisciplinary major composed of 36-18-9-9 hours or 36-18-18 hours, a few of which are described in the catalog, or similar patterns to be approved by the two primary division chairmen and the registrar.

3. The liberal arts major, a contract major of 24-24-24 hours, to be approved by the advisor, primary chairman, and the registrar and described on the next page.

## INTERDISCIPLINARY MAJORS

The traditional tracks for majors and minors have given way in a multifaceted world of careers to personalized majors. Several divisions have established cross-

FIELDS OF STUDY	Subject Majors		Secondary Teaching Majors Minors		Supporting Programs
	B.A.	B.S.			
Division I: Education Elementary Education Physical Education Health		x x	x	x x	
Division II: Fine Arts Art Music	x		x	x	x
Division III: Language Arts Communication Arts Language Arts Literature Spanish Writing	x x		x x	x x	x x
Division IV: Natural Science Biology Chemistry Home Economics Mathematics Physical Science- General Science Physics		x x x x x	x	x x	x
Division V: Religion Bible Christian Ministries Philosophy Religion	x x				x x
Division VI: Social Science Economics and Business Geography History Political Science Psychology Psychology-Sociology Social Services Social Studies Sociology		x x x x x x x x x x	x	x	x x
Interdisciplinary: Liberal Arts Music-Religion Physical Education- Religion Home Economics- Business or Social Services Science-Business	x x x	x x x x			

disciplinary majors, which are described at the beginning of the division chapters.

If these prove inadequate to the needs of a student, he may propose an arrangement of meaningful experiences under a Liberal Arts major. This cross-disciplinary major consists of a minimum of 72 hours with 24 hours from each of three fields related to the student's objectives. Of these hours, 45 must be upper division hours with fifteen in each field, as determined by contract. The student must complete a contract form signed by the advisor, the registrar, and the division chairman most closely related to his professional objectives.

Examples of programs for students who may be served by the liberal arts major are:

1. Economics, political science, and communication arts for a prelaw student.
2. History, literature, and communication arts for a writer.
3. American literature, American history, and political science or economics for an American studies major.
4. Business, communication arts, and Christian education for a Christian publications career.
5. Combinations of religion, Bible, and Christian education with physical education, music, psychology, sociology, etc. for contemporary church vocations.

## COURSE CHALLENGE PROGRAMS

Your program may prove more exciting and meaningful and be shortened through one of the Course Challenge Programs.



### **Advanced Placement**

College credit or advanced placement is possible in several subject areas for the student who completes a college-level course in high school and receives a score of three under the Advanced Placement Program sponsored by the College Entrance Examination Board. Any student requesting advanced placement with or without credit must petition before the end of the first term in attendance.

### **Course Challenge Examination**

A student who believes he has acquired the content of a required or prerequisite course may challenge the course and demonstrate by examination his readiness for advanced work. Upon paying the proper fee and making a satisfactory score, he may be released from the requirement of the course. Since no credit is thus given, he may enrich his total program in his major field or in electives.

### **Credit by Examination**

A student may accelerate his educational goals by taking the subject area examinations or the General Examinations offered through the College Level Examination Program (CLEP).

A maximum of 96 term hours may be earned by the credit-by-examination route. The college approves the courses, prerequisites, and minimum grades acceptable for credit. See the registrar or the testing director for details.

### **Proficiency Test**

A student may register for advanced courses in language, music, Bible, and certain other courses by passing a proficiency test in the area involved. The proficiency tests are usually a part of college orientation, and no special fees are charged.

A student from a non-English speaking nation may fulfill his language requirement by demonstrating proficiency in the English language.

### **Pass-No Pass Policy**

A student with a cumulative GPA of 2.00 or better and who has completed 90 term hours may elect one course per term from an elective or general education course on a pass-no pass basis.

The teacher submits a regular grade to the registrar, who converts the regular grade of "C" or above into pass. A grade below "C" becomes no-pass and must be repeated on a satisfactory level to receive credit.

If a student elects to take a course on a pass-no pass basis, he must indicate that choice to the registrar by the last published date to add a course.

Field experiences and the miniterm are graded pass or no pass.

### **INTENSIFIED STUDIES PROGRAM**

The Intensified Studies Program offers to a select number of students an opportunity to seek knowledge more freely and responsibly through a special honors colloquium and through significant projects of independent research. Students with a GPA of 3.25 or

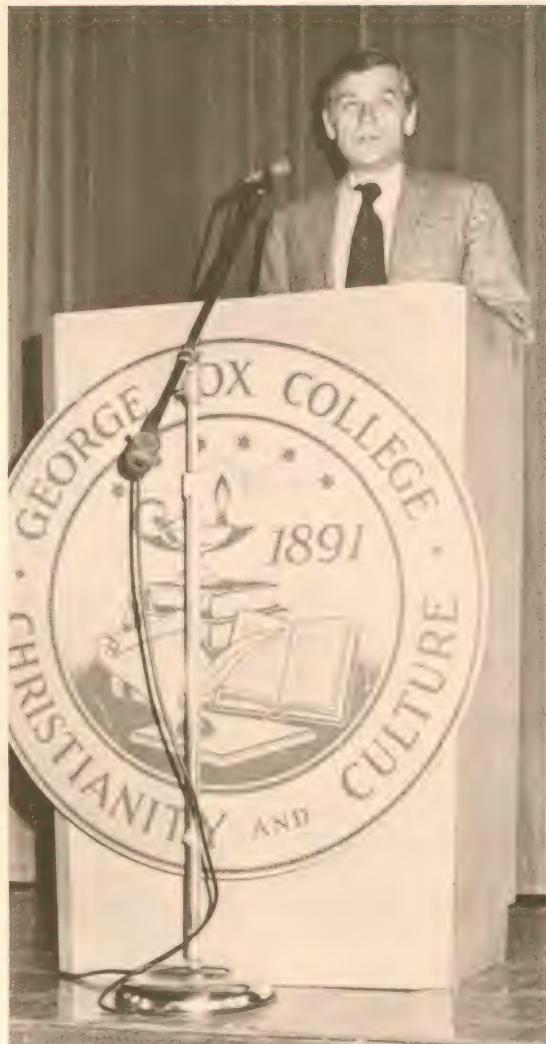
better (or any other students by special petition) may apply for participation in the Honors Colloquium, Philosophy 271, 272, 273, with applicants subject to approval by a faculty committee.

Students from the colloquium desiring to do independent study may submit a study plan in consultation with a faculty advisor and approved by the division chairman. Students whose programs are approved shall register for three hours of credit each term (under the 495 or other appropriate course numbering) for research in the Intensified Studies project. Projects that are completed according to the standards of the Intensified Studies Program will be evaluated by the major professor and the director of the program and awarded credit totaling from nine to fifteen term hours. Projects failing to meet acceptable standards shall be noted on the transcript as research but not designated Intensified Studies.

Limited scholarship aid is available, depending partially upon need. A special research grant is awarded to each approved program.

## INDIVIDUALIZED LEARNING

Obviously the Course Challenge Programs and the Intensified Studies Program just described are forms of individualized learning. Another form is programmed instruction. A special lab provides self-teaching machines (Slide Sponder and Sound Sponder) developed by a George Fox professor. This locally-produced instruction using slides and cassette tapes is featured wholly or partially in



eleven courses: Freshman Chemistry, General Physics, Earth Sciences, Principles of Sociology, State and Local Government, Basic Spanish, Fundamentals of Music Theory, Literature of the Bible, English Literature, Art, and Calculus.

Field or off-campus learning experiences are common. Summer or other term projects based on directed independent study are utilized. Note the courses 295, 475, 485, and 495, all of which are curriculum-enrichment provisions to help you realize your objectives. Courses 295 and 495 are independent studies and research, 475 courses involve field and applied learning experiences, and 485 courses are special topics for seminars.

Travel courses are offered periodically. Classes have gone to Europe, Asia, and Africa. Campus visitors from many lands are featured each year, and these comprise a valuable learning resource as students make the effort to meet and discourse with these visitors.

The September Term week is a recent development. The miniterm prior to the opening of the fall term permits innovative and experimental learning experiences involving students and faculty, plus off-campus resource persons.

## CCC VISITOR PROGRAM

The Christian College Consortium, described in the first chapter, sponsors a student visitors program. This permits a student in good standing to enroll for one term or a miniterm in one of the eleven colleges. The program is intended as an enrichment to those disciplines where personnel and cours-

es may be somewhat limited. Application forms are available in the dean's office. Normally this one-term experience should be part of the junior year or the first term of the senior year.

## PREPROFESSIONAL COURSES

Any student looking forward to a professional career should remember that every professional course of a technical nature is built upon a foundation of preprofessional courses. Almost all professional schools require at least two years of general college work before admission; some require four years. It is therefore usually true that from two to four years' work may be taken at George Fox College and transferred to the professional school with no loss of credit. To insure accuracy in this matter, a student should request a catalog from the professional school of his choice to use as a guide in selecting preprofessional courses at George Fox College.

George Fox College provides four-year preprofessional education in the science professions (e.g., medicine, psychiatry, research); in the service professions (e.g., ministry, law, counseling); in the business professions (e.g., banking, management); in education on elementary, secondary, and higher levels; and in the performing arts (e.g., music, acting).

The college provides partial preprofessional education in other technical and professional careers in fields such as nursing, forestry, journalism, speech therapy, computer programming, engineering, and agriculture.



# **Academic Regulations and Procedures**

## **ACADEMIC SESSIONS AND CREDITS**

The college year at George Fox College is divided into three terms of approximately ten weeks each, plus New Student Days and registration. In addition, George Fox sponsors a summer program and a miniterm in September.

The unit of credit is the term hour, which is normally granted for the satisfactory completion of a course meeting one period (50 minutes) per week for one term. Credit for all courses is indicated in term hours. All student requirements, advancements, and classifications are based on these units.

## **COLLEGE GUARANTEES**

College policy guarantees that the student may graduate under the general education requirements stated in the catalog at the time he matriculates, provided attendance is continuous and full time. Likewise, he may graduate under the major requirements in force at the time that he is admitted to a major field, provided attendance is continuous and full time.

Two exceptions may be noted: (1) In the event of a change in requirements in general education or in a major field, the student may elect to fulfill the requirements of a revised program, provided attendance has been continuous and full time; (2) The college may face a situation beyond control and foresight that may necessitate a revision in available courses. In such situations, the interests of the student will be protected.

## **COLLEGE RESERVATIONS**

The college reserves the right to withdraw courses with insufficient enrollment, to add courses for which there is demand, to upgrade programs, to revise teaching assignments and time assignments, and to regulate class size.

It is the responsibility of the student to become familiar with policies and procedures outlined in the catalog. For example, most upper level courses are offered in alternate years, but this should be no problem if there is advance planning. Advisors will aid as requested, but the student must be responsible for his own program.

## **ATTENDANCE AND ACADEMIC LOAD**

The responsibility rests with the student to maintain good standards involving satisfactory scholarship. Regular class attendance is expected of each student in all courses. Work lost because of absence may be made up only in the case of prolonged or confining illness, death of relatives, or similar emergencies. Permission for absences from class for participation in cocurricular college activities must be granted by the dean of the college. Illness is excused by the Health Center, and other absences are between the student and his instructors.

The student's load will be determined in conference with his advisor. Ordinarily, the first term freshman will register for no more than sixteen term hours. Provisional students will be limited according to the regulations.

The following is suggested as a satisfactory relationship between the student's academic load and his work, on or off campus:

Work	Academic load
Not more than 18 hours	15-17 term hours
Not more than 25 hours	12-14 term hours
Not more than 30 hours	10-12 term hours

The college may dismiss any student who fails to earn an average of at least 1.00 during a term, regardless of classification or number of hours completed, or any student who becomes so indifferent or incompetent that he benefits neither himself nor the college community.

## CLASSIFICATION OF STUDENTS

Classification is based upon the student's academic standing in terms of hours and grade points at the beginning of the term. New students will be classified as regular or provisional students when entrance requirements have been met and official transcripts have been received and evaluated.

### Regular Students

Students who have satisfied entrance requirements and are following a program leading to a degree are called regular students. They are classified as follows:

Freshmen: Students who have completed fewer than 45 term hours

Sophomores: Students who have completed 45 term hours

Juniors: Students who have completed 90 term hours

Seniors: Students who have completed 135 term hours



### **Special Students**

This classification includes degree and nondegree students generally enrolled for less than twelve term hours. Any special student wishing to enter a degree program must fulfill regular admissions requirements. College housing may be limited to those enrolled for a full load.

### **Provisional Students**

Students whose cumulative GPA falls below 2.00 will be classified as provisional students. Provisional students are urged to utilize available resources and remedial facilities to remove their academic deficiencies. For continuance past one term, the student must have raised his GPA to the minimum requirement or at least have made sufficient progress for continuance on a provisional basis.

If a student is given academic dismissal, he may apply for readmission after one or more terms have elapsed. If readmitted, the student will reenter provisionally.

### **Auditors**

Subject to instructor approval, any regular or special student may audit courses from which he wishes to derive benefit without fulfilling credit requirements. This must be established with the registrar at time of registration.

### **Full-time Student**

A full-time student is one who is enrolled for a minimum of twelve hours in a standard term.

## **REGISTRATION**

All students are expected to register on the days designated on the college calendar and to begin classes on the first day. The registrar will provide a brochure to supplement the catalog with specifics for each registration.

### **Course Additions**

1. After classes begin, a later admission to class must have the approval of the registrar and consent of the instructor involved. There is a fee of \$5 for a change of registration plus the tuition involved.

2. The last day to add courses is established in the calendar at the front of this catalog.

### **Course Withdrawals**

1. A student wishing to drop or withdraw from a class or from the college must secure the proper form from the registrar's office. Unless this is done, an "F" will be recorded for all courses involved. There is a fee of \$5 for a change of registration, except for complete withdrawal from the college.

2. The last day to withdraw from a course with a "W" is the seventh Friday of the term, except by petition.

## **THE GRADING SYSTEM**

Term grades are determined by the instructor's evaluation of the student's daily participation in class, his performance on periodic tests, his work on term papers and class projects, and his achievement on final examinations. Grade points are assigned for each term hour of credit earned according to the following system:

<b>Letter Grade</b>	<b>Meaning</b>	<b>Points Per Term Hour</b>
A	Superior	4
B	Good	3
C	Average	2
D	Passing but inferior	1
F	Failing	0
Inc	Incomplete	0
W	Official Withdrawal	0
P	Pass (average or above)	0
NP	Not passing	0
L	Long-term	0

The grade of "Inc" must be made up within four weeks or a contract arrangement developed or it becomes an "F" grade. A request for an Incomplete or its extension must be approved by the instructor involved and the dean of the college or appointed associate. An "Inc" protects the student who through illness or some other unpreventable and unforeseeable intervention finds it impossible to complete all course requirements.

An "L" grade designates satisfactory progress in a long-term course continued beyond the normal term calendar. The "L" may be replaced by a "P" or a point-receiving grade.

A student may repeat a course in which he received a "D," "F," "W," or "Inc," but the first grade remains on his record. The cumulative GPA is computed on the last grade received.

## GRADUATION REQUIREMENTS

A student wishing to receive a Bachelor of Arts or a Bachelor of Science degree must meet the following requirements:



1. Accumulate at least 189 term hours with a minimum grade point average of 2.00.
  2. Accumulate at least 63 upper division term hours (courses numbered 300 or above).
  3. Complete the general education requirements.
  4. Complete a major in a chosen area with no grade below a "C" in upper division courses.
  5. Complete at least 45 term hours in residency. Two terms must be in senior year.
  6. Complete at least 12 hours of one's major in residency.
  7. File an *Intent to Graduate* form three terms or 42 hours before anticipated graduation.
  8. File an *Application for Graduation* form not later than completion of 160 term hours toward graduation (normally Winter term before expected graduation in Spring term, or equivalent time period).
  9. File credentials with the placement office.
  10. Pay in full his account at the business office.
3. Be in attendance the last three terms or 45 term hours preceding the awarding of the "second" degree;
  4. Pay an additional \$15 graduation fee if participating in one ceremony, otherwise pay an additional \$25 graduation fee for the "second" degree.

### **Graduation Honors**

*Summa cum laude* is awarded to students with a cumulative grade point average of 3.90, *magna cum laude* to those with a 3.70, and a *cum laude* to those with a 3.50. These honors are based on total work completed prior to graduation. Transfer students must have completed at least 90 term hours at George Fox College to be eligible for honors at graduation.



### **Second Degree**

The following requirements provide for a second or concurrent degree. A student must:

1. Complete a minimum of 45 term hours for the "second" degree above the minimum 189 term hours required for the "first" degree;
2. Meet the general education requirements for each degree;





# Student Life

A real bonus for each student in a small college is the opportunity to be somebody and to get personally involved. Student activities serve this function and acknowledge that all meaningful learning is not in the classroom nor formal in nature. Another bonus is the opportunity to know helpful people so that when needs arise they may be met. The services described in this chapter are for the purpose of serving each individual as well as the group.

## STUDENT ACTIVITIES AND ORGANIZATIONS

Student organizations provide opportunity for the development of leadership qualities and interpersonal relationships. These are designed to supplement classroom work with practical experience and to provide wholesome and profitable recreation. Many activities are available including campus government, athletics, music, drama, publications, social and religious organizations, and various special interest groups. Each student is encouraged to participate in the area of his interest.

### Government

The Associated Student Community of George Fox College (ASCGFC) is an organization of all students. The ASCGFC has eight standing committees (Activities, Cultural Events, Student Union, Christian Emphasis, Christian Service, Communications, Finance, and Campus Affairs), a Supreme Court, and

a Central Committee. The Central Committee, which is made up of the student body officers, the Supreme Court Chief Justice, and the standing committee chairmen, acts as an overseeing and coordinating body for the standing committees. The Supreme Court acts as the constitutional watchdog. The ASCGFC also includes one faculty member on each of the student government committees to further student-faculty communications and cooperation. Student representation on the standing committees and the Supreme Court is based on residence areas in order to more effectively use existing channels of communication on campus.

### Athletics

George Fox College has excelled in athletics during recent years, receiving the NAIA District 2 Basketball Championship in 1973. Intercollegiate men's sports include cross-country, basketball, baseball, and track. Women students compete in field hockey, volleyball, basketball, tennis, track, and softball. The college also has a strong program of intramural athletics.

Men's varsity athletic competition functions under the direction of the National Association of Intercollegiate Athletics, of which the college is a member.

Order of the Bruin is an organization for all men who have won a varsity letter in any major sport and who have been duly elected.

Gold Q Club consists of women who have won one or more letters in college sports. The club endeavors to further all athletic activities and foster student enthusiasm.

## **Music**

Music activities are available to students with varied musical talents. Public performances are presented through the Oratorio Choir, A Cappella Choir, Chamber Choir, Concert Band, Orchestra, Music Theater, Stage Band, and small ensembles. Students are urged to audition for these musical groups.

"Student Chapter Music Educators National Conference" provides a bond between students in music education and the professional organization. Students receive the *Music Educators Journal* and the *State Music Journal*. Members may attend meetings of these professional educators organizations. The club also sponsors speakers on new developments in the music education field.

## **Drama**

Communication Arts presents at least one major dramatic production each year during the winter term as well as a regular series of one-act plays and Readers Theatre presentations. Augmenting the on-campus drama program is the drama touring group that presents chancel dramas in repertory for churches in the Northwest.

## **Publications**

Publications include a newspaper, *The Crescent*, and an annual, *L'Ami*. Elected editors direct their staffs in the selection and preparation of materials for these publications. *The Crescent* is a member of the Associated Collegiate Press.

## **Special Interest Groups**

*The International Club* promotes social fellowship and understanding between American and foreign students.

*Scribblers Club* is composed of persons interested in literature. The club promotes the appreciation of literature, creative writing, and discussion of the various authors and their works. The club sponsors the occasional publication of student anthologies.

*Student Oregon Education Association* seeks to prepare prospective teachers for education leadership. The club sponsors various projects and meetings with special emphases.

*PE Major/Minor Club* consists of all persons majoring or minoring in physical education. The club sponsors on-campus athletic and educational events as well as traveling to professional sports attractions, providing opportunities for both on- and off-campus involvement in special activities for members.

*Business Club* is available to all GFC students to deepen their understanding of and broaden their exposure to the world of business through activities including guest speakers and field trips.

## **Social Events**

The academic year at GFC is highlighted by many social functions. Two formal events are held during the year, one near Christmas during fall term and the other during spring term. Homecoming is one of the major campus events of the year, when the entire college community hosts returning alumni. It is held in February. May Day celebration, directed by the Associated Students, is held

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annually on the first Saturday of May. Various other activities occur throughout the year including movies, concerts, and parties.

### Scheduling of Activities

All social and college activities arranged by departments, campus clubs, or groups of students are scheduled through the office of student affairs. The scheduling of activities by students is the joint responsibility of the office of student affairs and the director of activities.

## WORSHIP AND SERVICE

*Chapel services provide a source of Christian inspiration and instruction. Musical programs, outstanding speakers, faculty, and student participation seek to produce interesting, informative, inspirational chapel services and convocations. Chapels are held twice a week, and attendance is required of all students. Attendance is registered and an attendance roll is maintained. The dean of students may grant excuses for necessary chapel absence.*

The churches of the community maintain varied programs of activity for college youth. Students are welcome to their services and fellowships, and opportunity for participation and student membership is provided. Regular church attendance is desired of all students.

*The Student Christian Union coordinates Christian activities on the campus and provides varied opportunities for every student who desires to participate in some phase of Christian work. The SCU sponsors a weekly meeting, two weeks of Christian Emphasis*

each year, an annual missions conference, various prayer meetings, and service projects.

Christian ministry is encouraged as a means of developing abilities of students in the work of the church. Anyone representing the college in a specific ministry must be authorized to do so by the college administration.

## STANDARDS OF CONDUCT

When a student enters the college he agrees in writing to respect the regulations of the institution. All regulations are designed to allow the fullest liberty consistent with efficient work, while at the same time promoting the welfare of the entire campus community.

The college admits students with the understanding that they will comply with these regulations in every respect and conduct themselves as responsible citizens. All students are expected to maintain normal standards of behavior, which include conforming to state and local laws.

Any student whose behavior is dishonest, destructive, unethical, or immoral, or whose conduct is detrimental to the total welfare of the community shall be subject to disciplinary action, which may result in suspension, dismissal, or expulsion from the college.

In accordance with Christian convictions honoring the body as the temple of the Holy Spirit, the college community accepts a life style that forbids gambling, the use or possession of illegal drugs, alcohol, tobacco, obscene or pornographic articles or literature, and immoral sexual behavior. Our college community has found its best interests served

by not sponsoring dances or permitting social dancing on campus or at college-related activities or events.

### **Motor Vehicles**

The ownership or possession of automobiles or other motorized vehicles by students is permitted. Students are advised to maintain appropriate insurance coverage on such vehicles.

A full presentation of regulations governing student conduct and discipline is available in a college handbook on regulations and procedures.

## **LIVING ARRANGEMENTS**

### **Housing Policies**

George Fox College is a residential college. It is the belief of the college that the students' academic and social goals are more easily attained when living in attractive surroundings. Human relationships experienced in residence halls, residence apartments, and residence houses are strong factors in producing positive personal development. The policies and procedures governing residence housing are an outgrowth of the basic values of George Fox College.

All students enrolled in twelve or more credit hours who are less than 23 years of age are required to live in residence housing and take their meals in the Commons. Certain exceptions may be granted by the office of the dean of students.

Intervisitation between men and women in the residence halls is allowed only during

preannounced open house hours. Additional residence hall details are included in the college handbook provided for each student.

Three modern residence halls house 278 students. Pennington Hall, with a capacity of 100, is a coeducational residence for men and women students. Edwards Hall, a residence for 104 women, is designed with two separate wings of three floors each. Hobson Hall, a men's residence, houses 74 students. A limited number of residence houses and apartments are available for single and married students. Housing administration is handled through the office of the dean of students.

Residence housing is furnished with beds, mattresses, and other essential furnishings. Students are expected to provide their own bedding, towels, etc. All belongings should be marked clearly for identification. Coin-operated laundry facilities are provided for each residence.

New students should notify the admissions office in writing of housing preference at the time their \$75 tuition deposit is paid. Returning students who wish preference on room selection are required to pay a \$50 room deposit by May 15. This deposit is refundable up to August 1.

Occupants of residence housing are held responsible for damage to their unit and furnishings. Cost of damage or cleaning beyond the normal wear, unless such damage has been identified with an individual, will be charged on a pro rata basis among the occupants of the unit. A final inspection of each residence housing unit must be made before a student may leave at the end of the aca-

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demic year or withdraw from the college. Final checkout from a residence housing unit is complete only with this inspection and after the key is turned in.

### **Food Service**

Students living in residence housing are required to eat in Heacock Commons. The charge established for the food service is based on the assumption that not all students eat all meals; therefore, no deduction will be granted to students who eat fewer than 21 meals per week. An exception may be made for meals missed because of employment. Inquiries should be directed to the business office. A charge is made for guests. Commuting students may board at the college if intent to do so is indicated at the time of registration.

## **STUDENT SERVICES**

### **Office of Student Affairs**

This office is directly responsible for the organization and programing of residence housing and other student living arrangements, new student orientation, foreign students, student government, health service, food service, placement, college activities calendar, and other student activities. This office also offers individual attention to problems arising among students. Students are encouraged to contact this office whenever they are concerned about aspects of college life not specifically related to curricular programs. The dean of students coordinates these services and programs.

### **Health Services**

A registered nurse is on duty a part of each class day in the health office in Pennington Hall. The nurse works in close cooperation with the doctors in the community. She will provide consultation and treatment for common ailments in the health office but does not make calls to the residence housing. The nurse will assist in making arrangements for special medical or surgical care. When practical, the student should seek the help of the family doctor. When chronic ailments are diagnosed, the parents or guardians are notified.

Health and accident insurance is required of all students. Students must verify adequate insurance coverage elsewhere or be enrolled in the college program at the time of registration.

### **Financial Aid Office**

This office coordinates student employment, awards of scholarships, grants, loans, and other forms of financial assistance.

### **Career Development Center**

This office is available to aid students regarding career selection, testing, placement, postgraduate studies, etc. Materials regarding various careers and possible job opportunities are also available in this office.



# Admissions

The college admits applicants who evidence academic interests and ability, moral character, social concern and who would most likely profit from the curriculum and Christian philosophy of George Fox College. These qualities are evaluated by consideration of each applicant's academic record, autobiography, test scores, recommendations, interview reports, and his participation in extracurricular activities.

One may apply for admission after completion of six semesters of high school study, or as early as fall of the senior year. A policy of continuous admission is followed with the first decisions made in October. Admission is subject to the satisfactory completion of the senior year of high school.

It is recommended but not required that the applicant present the equivalent of sixteen academic units from an approved high school. The following units are suggested: English, 4; social studies, 2; science, 2; mathematics, 2; language, 2; and health and physical education, 1.

Satisfactory scores on the College Board Test (SAT), the American College Testing Program (ACT), or their equivalent are required of each applicant, and scores should be sent to the admissions office.

Admission is possible at the opening of any regular term.

## ADMISSION PROCEDURES

1. Write to the Director of Admissions, George Fox College, Newberg, Oregon 97132, for information and admission forms.

2. Request a transcript of academic credit from the secondary school last attended. Transfer students must request a transcript from each college in which they have been registered and may be asked to furnish a high school transcript also.

3. Complete the admissions form and return it to the admissions office. Include a nonrefundable application fee of \$10.

4. Submit reference sheets to designated persons, who will return the completed reference to the admissions office.

5. Arrange for an interview on campus with the director of admissions or off campus with an admissions counselor. An on-campus visit is recommended, distance permitting.

6. When all forms have been received and the admissions fee is paid, the student's file is complete. Prompt notification of decision is given each applicant following the completion of the file.

7. By May 1 or within three weeks after acceptance, whichever is later, a tuition deposit of \$75 must be submitted by each new, full-time student. This is refundable up to August 1.

8. A medical examination form is sent to each accepted student. This must be completed by the student and physician and returned to the admissions office no later than August 15 (for fall admission).

9. It is recommended that all applicants for financial aid complete application for admission by March 1. Acceptance of a request cannot be guaranteed after May 1.

## **READMISSION OF FORMER STUDENTS**

To apply for readmittance after an absence of two or more terms, a student should obtain from the admissions office an *Application for Readmission*. If two or more years have elapsed, he must meet any new or revised graduation requirements and may be asked to go through regular admissions procedures.

## **ADVANCED PLACEMENT—HONORS PROGRAM**

Past learning and present ability may recommend that course work begin at an advanced level. This may involve granting of credit or in waiving certain prerequisites or college requirements. These *Course Challenge Programs* are described in the chapter, "The Academic Program." An *Intensified Studies* or honors program is described in the same chapter.

## **ADMISSION TO MAJORS**

Admission to the college does not imply automatic admission to teacher education or to a particular major such as music. Each student selects a major in conference with a faculty advisor, normally during the course of the sophomore year.

## **POLICIES GOVERNING TRANSFER STUDENTS**

Students from other educational institutions may be entitled to advanced standing



by presenting official transcripts. George Fox College applies the accepted credits toward the general education requirements and the student's chosen major. Transfer credit from other colleges will be summarized on our transcripts.

Certain criteria are involved in the evaluation:

1. Only course work with a "C" or better grade will be accepted.
2. All general education requirements, except upper division religion requirements, will be fulfilled if the applicant holds an Associate of Arts degree from an accredited junior college.
3. A maximum of 96 term hours may be transferred from an accredited junior college toward the bachelors degree.
4. A maximum of 60 term hours of Bible and Christian education may be applied on a degree in a major other than Bible and Christian education.
5. A maximum of 45 term hours may be applied toward a degree by an applicant holding an R.N. degree.
6. A maximum of 30 term hours of approved correspondence work may be applied toward a degree program.

Each student must complete a minimum of 45 term hours in residence for his bachelors degree. Two terms must be in the senior year (joint-degree students excepted).

## EARLY ADMISSION OF HIGH SCHOOL STUDENTS

An early admission program is available to qualified high school students. This per-

mits study at George Fox College during the completion of high school units.

*Eligibility Requirements:* (1) An applicant must have completed the junior year of high school; (2) if an applicant has completed the senior year of high school, he is not eligible; (3) recommendations from the applicant's high school principal or assistant principal and guidance counselor are required; (4) early admission students must receive grades of "C" or better to remain in the program.

*Application Procedures for Early Admission:* (1) Contact the admissions office for an admission application; (2) complete the application and return it to the admissions office with the \$10 application fee; indicate your choice of courses; (3) upon completion of the application, you will be notified concerning admission and registration; (4) only one course of no more than four hours may be taken during any of the regular terms, unless a lightened high school load is possible; (5) early admission students in good standing are automatically admitted to the college upon graduation from high school.

*Cost and Credit:* (1) Early admission students may take a maximum of twelve quarter hours work with a tuition charge of \$10 per credit hour; (2) credit earned during early admission may be applied to degree programs at George Fox College without additional charge; (3) credit earned during early admission may be transferred to other colleges or universities upon receipt of payment of regular tuition and fees in effect at the time the course was taken; (4) after the completion of 90 quarter hours (2 years) at George Fox

College, a student may transfer the hours taken during early admission without an additional payment.

### **NON-HIGH SCHOOL GRADUATES**

An adult whose high school preparation is incomplete may be admitted on the basis of the General Educational Development Test, provided the average standard score is at least 53 with no one score below 48. Your local high school can supply details for you. Adults not wishing to select the degree route may be admitted to noncredit courses offered under the continuing education program or be admitted as auditors in other selected courses.

### **AUDITORS**

By advance permission of the director of admissions persons of mature years and others who are capable of profiting from college classes may enroll as auditors. Auditors pay a reduced tuition fee. Examinations are not required and no college credit is earned.

### **SENIOR CITIZENS**

Any person 62 years of age or older may enroll in regular courses for credit or audit without a tuition charge, although a materials fee may be assessed in some courses. A small charge may be necessary in continuing education courses in which the primary enrollment is 62 or over. Unless limited by space, equipment, or essential background, all courses are open. Application is through the director of admissions, who will consult



with the applicant, the registrar, and the instructor. Fees for admission and matriculation are payable once.

### TRANSIENT STUDENTS

Students working toward a degree in another college may enroll for courses at George Fox as transient students. A transient student must present a letter from the dean or registrar of the college in which he is enrolled indicating approval of the specific courses to be taken. The \$10 admission fee is charged once, although the student may attend several terms or sessions. Not more than one year of full-time study may be permitted.

### FULL-TIME STUDENTS

Full-time students are enrolled for a minimum of twelve hours in a standard term. Only full-time students may represent the college in an official capacity or hold a major office in any organization.

### PROVISIONAL STUDENTS

An applicant who does not meet the total expectations for admission may be admitted as a provisional student. The status and conditions will be defined at the time of admission. This possibility is in keeping with Carnegie Commission recommendations for the encouragement of advanced learning for disadvantaged persons. Others may be helped who were not strictly disadvantaged. Current students may also become provisional. This is described in the chapter, "Academic Regulations."

### INTERNATIONAL STUDENTS

Prospective students holding non-U.S. citizenship may write for a special descriptive sheet covering their primary concerns. Initial application must be made by January 1 for entrance in the fall term and by a minimum of six months prior to any other term. An English test and financial ability are among the prerequisites for admission.

### HIGH SCHOOL VISITATION DAYS

High School Visitation Days occur throughout the year, when high school students visit the campus to allow the college faculty and students opportunity to share academic offerings and the social, cultural, and spiritual opportunities provided at George Fox.

The admissions office is open for individual assistance on weekdays, 8 a.m. to 5 p.m., and Saturdays by appointment.





# Financial Information

George Fox College maintains high educational standards at the lowest possible cost. The individual student pays only about seventy percent of the actual cost of education. The remainder of the cost is underwritten by gifts from alumni, friends, churches, businesses, and institutions. An extensive financial aid program assists students in meeting college costs.

The Board of Trustees reserves the right to adjust its charges (other than guaranteed tuition rates as described below) at any time after giving due notice. No changes will be made during a term, nor, unless special circumstances make such action necessary, will changes be made during a given academic year.

Although a number of steps are being taken to control expenses and to maximize unrestricted gift income and return on endowment, a modest increase in charges, including the tuition rate for new students, may be necessary effective September 1976 to offset the effects of inflation.

## COSTS

### Estimated Cash Outlay for Typical Entering Student, 1976-77

	Fall	Winter	Spring	
	Term	Term	Term	Total
Tuition (16 hours)	\$ 688	\$ 688	\$ 688	\$2,064
Student Body Fee	30	30	30	90
Admission and matriculation fees	20			20
Total—				
nonresident students	738	718	718	2,174
Board and room	465	385	300	1,150
Total—				
resident students	\$1,203	\$1,103	\$1,018	\$3,324

These costs do not include travel, books, and personal expenses, which will vary widely among students. Cost of books can be expected to average about \$50 per term.

### A Guaranteed Tuition Plan

A student pays only for those courses in which he enrolls. Tuition charges are determined by the number of credit hours for which a student registers. Depending upon his financial situation, his career goals, and his aptitude, a student may arrange his program in a variety of ways. In every case, the student pays only for those courses he needs or desires to fulfill his requirements.

Tuition charges are on a guaranteed rate per term credit hour. The rate as indicated below by year of full-time enrollment will be maintained during the regular time required for graduation. Continuous full-time enrollment is required to maintain the rate. Fall term, winter term, and spring term are regular sessions covered by the guaranteed tuition rate. Summer sessions and miniterms are not considered as regular sessions. Students who drop out for one session or more, or who reduce their credit hours taken to less than twelve, will pay the rate prevailing at the time of their reenrollment or registration as a part-time student. The maximum time guaranteed for freshmen is four consecutive years (twelve terms), for sophomores three consecutive years (nine terms), for juniors two consecutive years (six terms), and for seniors one year (three terms).

If the Consumer Price Index (CPI) computed by the Bureau of Labor Statistics increases by more than eight points in any one

year, all tuition rates may be reevaluated and, if necessary, increased by a percentage equal to the amount by which the CPI increase exceeds the average increase for the preceding three years.

#### \*Tuition Charges

Tuition charges for full-time enrollment (twelve or more credit hours per term):

For students enrolled continuously since the academic year 1973-74: \$39.50 per credit hour (guaranteed one to eight terms depending on class standing at the time of first enrollment)

For students enrolled continuously since the academic year 1974-75: \$40.50 per credit hour (guaranteed one to eleven terms depending on class standing at the time of first enrollment)

\* For students enrolling full time for the first time during the academic years 1975-77: \$43 per credit hour (guaranteed one to twelve terms depending upon class standing at the time of first enrollment)

\* For less than full-time students enrolling during the academic year 1976-77: \$43 per credit hour

Tuition for auditing a course is one-half the applicable regular charge.

## FEES AND EXPENSES

### Student Body Membership

Students registered for twelve credit hours or more each term — annual membership \$85

Students registered for at least five but less than twelve credit hours per term — annual membership 45

The full membership covers student activities, class dues, social events, athletic

*\*Because of the early issuance of the catalog, new students for the fall of 1976 or 1977 should confirm tuition costs after March 1 of that calendar year.*



events, the Student Union Building, and subscriptions to the college paper and yearbook. The partial membership covers all of the above except the yearbook.

#### **Admission Fees and Deposits**

Application fee (nonrefundable, submitted with application for admission)	\$10
Matriculation (registration) fee (paid only at initial entrance as full-time student to GFC)	10
Tuition deposit (required of all new, full-time students)	75
Room deposit (required of all returning students who wish to have preference for room selection)	50

#### **Registration, Records, and Graduation Fees**

Late registration fee (applicable if registration, including payment of charges or completion of financial arrangements, is not made prior to the first day of classes each term)	
First week of classes	\$ 5
Second and following weeks	10
Change of registration, per time of changes (after classes begin)	5
Fee for removing "Incomplete" per course	5
Examination fee for credit by examination, challenge, or exemption from specific requirement, per course	15
Credit by examination, per credit hour	8
Special examination	5
Joint-degree registration, per term	5
Graduation fee	25
Transcripts, each (first four copies free to GFC graduates)	1

#### **Departmental Fees**

Chemistry breakage ticket (unused portion refundable)	\$ 5
Data processing classes (initial fee)	20
*Off-campus physical education activity, per term	20
Private music lessons, per term (includes one one-half hour lesson per week and use of practice room)	55
Instrument rental—fees are set by the music department and range from \$5-\$20 per term	

#### **Business Office Fees**

Monthly Budget Plan service fee (nonrefundable, sent with application for plan)	\$10
Late payment penalty—Monthly Budget Plan	5
Deferred payment plan set-up fee, per term	5
Account service charge	
If account balance is less than \$50, the monthly service charge is \$.50. If account balance is \$50 or more, the monthly service charge is one percent of the unpaid balance.	
Returned check fee, per check	2

#### **Medical Fees**

Evidence of acceptable medical insurance for accidents, sickness, and prolonged illness

\*Students pay a fee of \$20 to cover costs of facilities, equipment, and transportation for any physical education course conducted off campus, such as swimming, bowling, golf, and canoeing. Personal rackets are required for tennis.

is required of all full-time students. Students are required to enroll in the college-approved student medical insurance plan, unless an insurance waiver card is submitted at the time of registration indicating comparable coverage elsewhere.

The fee is subject to change each year by the underwriter but is normally \$15-\$20 per term.

### Board and Room

Board and room is furnished to a resident student per term as indicated below. Charges quoted are individual student rates for two students per room. If a student chooses to occupy a residence hall room alone and such is available, an additional charge of \$50 per term will be made.

Fall term	\$465
Winter term	385
Spring term*	300

A limited amount of apartment housing is available for married students and eligible single students. Information about this housing may be obtained from the student affairs office.

### FINANCIAL ARRANGEMENTS

All charges made by the college are due at the beginning of each term. Students receiving scholarships, grants, or loans must complete all necessary arrangements well in

\*For students with uninterrupted enrollment beginning with fall term. Students enrolling only for the winter and/or spring term will pay the winter term rate each term.

advance of registration. Students who are securing a loan from financial institutions or agencies (e.g., a federally insured bank loan) that may still be pending at the time of registration must have a letter of commitment from the lender acceptable to the college.

### Schedule of Tuition and Room Deposits

New full-time students are required to pay a \$75 tuition deposit by May 1 or within three weeks after acceptance, whichever is later. This deposit is refundable up to August 1.

Returning students who wish preference on room selection are required to pay a \$50 room deposit by May 15. This deposit is refundable up to August 1.

### Monthly Budget Plan

An alternative method for payment of basic tuition, fees, and room and board charges is the Monthly Budget Plan, which may be elected by all full-time students.

The Monthly Budget Plan consists of equal monthly payments beginning June 1 and concluding on May 1 of the following year. A student may enter the program later than June 1 provided all back payments are made up when he joins the plan.

The annual service charge for the Monthly Budget Plan is \$10. There are no added finance charges related to these payments.

Scholarships, grants, and loans made by the college will be deducted in arriving at the balance to be met. Complete details, together with examples of how the plan operates, are available from the business office or financial aid office.



### Deferred Payment Plan

Students may elect to complete financial arrangements for registration each term using the Deferred Payment Plan.

If this plan is used, a \$5 set-up fee will be added to the account. In addition, the account balance is subject to a one percent monthly service charge.

Under the deferred payment plan, one-third of the account balance (after deducting scholarships, grants, and loans) is due at registration. An additional one-third is due one month from the first day of classes for the term. The remaining balance is due two months from the first day of classes for the term.

### Restrictions

The college reserves the right to withhold transcript of records or diploma until all college bills have been paid or until satisfactory arrangements have been made with the business office. Students may not be permitted to register for a new term until all bills are paid for the previous term.

### Refunds

Refunds on charges for tuition, fees, room and board will be made at withdrawal within a term from a course or the college. The date on which the student completes the official withdrawal process will determine the amount of the refund. In the case of withdrawal from the college, a minimum of \$100 will be retained by the college to cover the costs of registration and processing. Refunds

will be made according to the schedule stated below:

First day of classes	100% (less \$100)
Remainder of first week	85%
Second week	80%
Third week	60%
Fourth week	40%
Fifth week	20%
Sixth and following weeks	0

Board refunds will be made on a pro rata basis less a 10 percent charge.

## FINANCIAL AID

### Basis of Student Aid

Each family should expect to make every reasonable financial adjustment to provide as much support as possible beyond the normal maintenance it has customarily provided. In awarding aid as a supplement to the family's maximum efforts, the college considers primarily a student's academic potential, his personal interests and qualities, and promise for future leadership.

The College Scholarship Service Assembly (CSS) is a constituent body within the College Entrance Examination Board (CEEB). George Fox College joins with other members of the CSS in maintaining the principle that every qualified student should be able to choose a college for personal reasons. Financial aid awards make such a choice possible by helping bridge the gap between what a student's family can reasonably afford to spend on his education and what it will cost him to attend college. The amount of aid a student's family may be able to contribute for educational



purposes is the same at any college to which he applies. Every student is urged, therefore, to choose the college that offers him the best opportunity to develop his interests and abilities.

The family's ability to pay for college is determined by analyzing the information it has supplied on the Parents' Confidential Statement (PCS), a questionnaire about financial aid provided by the CSS. An independent student must file a Student Financial Statement (SFS) to be considered for aid.

### Types of Awards

Every student admitted is eligible to receive financial aid provided that he can show need. Financial assistance awarded by George Fox College takes the form of one or a combination of the following: scholarships, grants, loans, and employment.

All federal and state financial assistance requires an affidavit attesting that the recipient will use the funds only for educational purposes.

The awards given by George Fox College are granted upon the general principle that a clear distinction should be made between awards that recognize academic honor and achievement and awards that recognize the need for financial assistance. This system of awards tends to eliminate the concept that academic achievement should be recognized by monetary grants regardless of the financial condition of the student and achieves equity in the distribution of limited aid funds by providing that students who most need assistance will receive aid. While honors for distinguished achievement are given suitable

publicity, the college minimizes or completely avoids public notice of monetary grants because financial exigency is a confidential matter between the student and his college. Virtually every student in the college who can demonstrate need for assistance is awarded the amount of aid that will enable him to attend the college.

### Scholarships

Honors scholarships are granted each academic year to a limited number of qualified students. These scholarships are credits awarded by the college against the regular charges made by the college. Thus a scholarship is not a loan. Recipients may be asked to assist professors during their junior and senior year in return for monetary stipends they receive.

A limited number of honors for freshmen are granted each year based on a combination of high school class rank, cumulative GPA, SAT or ACT scores, leadership, and citizenship qualities. Continuation in the honors program is reviewed each year. Continuous enrollment, academic achievement, and recommendations by professors are a few of the factors considered by the Scholarship Committee in granting continuing honors. Transfer and continuing students who did not enter on honors are eligible for consideration in the program.

A small number of the highest-ranking students are selected at the end of the freshman year, or later, to enter the challenging Intensified Studies Program. Some financial aid is available to assist highly qualified students to pursue independent study.

## **Endowment for Scholarships and Grants**

A portion of the endowment funds is designated for the scholarship program as described above. In addition, the income from these funds makes possible the following scholarships and grants:

*Benson Scholarships* for students who demonstrate extraordinary scholastic ability. Such scholars may not exceed in number three percent of the student body.

*The Elizabeth Carey Minas Scholarships* for students who demonstrate high scholastic ability.

*The Ethel Cowgill Memorial Grant* awarded annually to a student whose parents are serving actively as pastors in the Northwest Yearly Meeting of Friends Church.

*The M. Lowell and Margaret W. Edwards Scholarship* granted annually to students enrolled in a pre-medical program.

*The Laura McPhee Grant* awarded annually to students whose parents are serving as missionaries in the United States or abroad.

*The Levi T. Pennington Memorial Scholarship* funds assist students who demonstrate leadership qualities, a desire for humanitarian service, high moral character, and have financial need.

*The Robert Robertson Grant* awarded annually to a student whose parents are serving as missionaries in the United States or abroad.

*The Joanne (Brougher) Summers Memorial Scholarship* granted annually to a foreign student or to an Indian or Eskimo student native to the state of Alaska.

In addition, there are other scholarships that carry no specific eligibility criteria donated by families and friends:

*The Endowed Memorial Scholarship* made possible by a number of families in memoriam of deceased family members.

*The Allen Hadley Memorial Scholarship.*

*The Arthur H. and Gwendolyn Winters Scholarship.*

It is hoped that recipients of these funds, who from experience are more aware than others of the importance of this scholarship program, will someday desire to add to the scholarship endowment fund and designate gifts for this purpose.

## **Other Resources**

Over the years friends of the college have provided funds annually to assist students with scholarships and grants. These awards usually carry with them special provisions. Grants and scholarships currently being awarded include:

The Ankeny Family Athletic Award

Dr. John C. and Esther Brougher Premedical Scholarship

Crecelius Family Christian Ministry Scholarship

Crisman Brothers Scholarship

Jackson Foundation Scholarship

George H. Layman Scholarship

Kent Ministerial Scholarship

Minthorne Family Grant

Newberg Optimist Club Grant

Orpha Puckett Larrance Memorial Scholarship

Rempel Science Scholarship

Frank D. Roberts Family Memorial Scholarship

Women's Physical Education Scholarship

A limited number of awards are made each year to students in the fields of athletics, drama, and music. To be eligible applicants must have satisfactory academic records and unusual proficiency in one or more of the above fields. Auditions or personal interviews are usually required of applicants. The college has established Church/College Fellowship Awards to assist churches in encouraging their young people to attend a Christian college. The church may make a gift of any amount to the college for credit to a specific student's account. The college will

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then match up to \$100 of the gift for any such students and up to \$300 for juniors and seniors who are preparing for Christian service. Gifts may be made for any number of students from a church. The gifts must be an official act of the church rather than from individual church members. In order to participate, a church must file an application in the financial aid office no later than May 1. Applications will be supplied upon request.

Any student whose home is over 500 miles from the campus may be eligible for a travel grant. The amount of the grant varies in proportion to the distance between the student's home and the college, is dependent on need, and is credited to a student's spring term account.

A student with exceptional need may apply for state and federal grants. A PCS or SFS must be on file to determine eligibility for this type of assistance.

### Loans

The Federally Insured Student Loan Program is a plan whereby parents or students borrow from their local bank for educational purposes. Applicants must obtain from the college appropriate forms to determine eligibility for possible federal interest subsidies.

There are several other loan programs financed through the college that are available to students with exceptional need. Students should apply to the financial aid office.

The college encourages students and their parents to use loan funds because these, unlike scholarship grant funds, do not subtract from the resources that support the program of the college. Loans place the responsibility

for financing higher education on the student, enabling him to receive financial assistance when he needs it and to pay some of the cost of his education at a later time when he is better able to do so. Consequently, the college expects loans to be a significant part of the usual financial aid award.

### Employment Grants

Employment Grants are awarded to students who clearly demonstrate financial need. A PCS or SFS must be on file to determine eligibility for employment grants.

Some employment grants are subsidized through the college Work-Study Program. This is a federal program of employment of students, particularly those from low-income families.





# The Curriculum

## DIVISION I. EDUCATION

**Education, Health Education, Physical Education**

## DIVISION II. FINE AND APPLIED ARTS

**Art, Music**

## DIVISION III. LANGUAGE ARTS

**Communication Arts, Literature, Greek, Spanish, Writing**

## DIVISION IV. NATURAL SCIENCE

**Biology, Chemistry, General Science, Home Economics, Mathematics, Physics**

## DIVISION V. RELIGION

**Bible, Christian Ministries, Philosophy, Religion**

## DIVISION VI. SOCIAL SCIENCE

**Business, Economics, Geography, History, Political Science, Psychology, Social Services, Sociology**

## COURSE NUMBERING SYSTEM

Courses numbered 100-299 are lower division level and normally are open to freshmen and sophomores. Courses numbered 300-499 are upper division level and normally are open to juniors and seniors. A 300 numbered course may be open to sophomores. Exceptions may be made when prerequisites are met and general education requirements are being met on schedule.

Course numbers ending in zero (e.g., Ed 300) designate courses that are complete in one term. They may be scheduled for any term during the college year.

Course numbers ending in five (e.g., Mus 105) designate courses that may be pursued for several terms under the same number, with all credits applicable, within stipulated limits.

Course numbers ending in one, two, and three, or seven, eight, and nine (e.g., Eng 111, 112, 113) designate courses offered throughout the year. A continuing course may not be entered in the second or third term without completing the previous term(s) or obtaining the permission of the instructor.

Course number 490 designates a Senior Seminar that is completed in one term; numbers 491, 492, 493 designate a Senior Seminar given each term.



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# Division of Education

Basic objectives of the division are:

1. To coordinate the resources of the college in providing a broad general education with academic specialization for the prospective teacher.
2. To provide professional preparation that develops in students the understandings, skills, and attitudes needed for a career in teaching at the elementary and secondary levels.
3. To provide instruction that fosters physical development of students and enhances the use of leisure time.

## TEACHER EDUCATION

George Fox College is approved by the Oregon State System of Higher Education for the training of elementary teachers in conjunction with the Oregon College of Education. It is also accredited by the Oregon Teacher Standards and Practices Commission for the training of secondary teachers in specific fields. These programs lead to Oregon Basic Teaching Certificates, which are issued by the Oregon Teacher Standards and Practices Commission upon recommendation of the teacher education institution.

### Admission to Teacher Education

A student who is admitted to George Fox College may apply for admission to teacher education during, or prior to, the first term of the junior year. Admission to the program is based upon academic achievement, skills in writing and speech, satisfactory physical and mental health, and exemplary social and moral behavior.

### Transfer Students in Education

Any student transferring to George Fox College must meet the same requirements for admission as those who have entered the program at the usual point. For secondary teaching fields, work at George Fox College must include Teaching of ..... (Special Methods) and Ed 475 and 490 Supervised Teaching and Seminar. A minimum of 45 term hours must be taken in residence at George Fox College for either the elementary or secondary programs.

A student transferring from a nonaccredited college to the secondary program of teacher education will be granted only conditional admission to the program until he demonstrates his ability by completing twelve term hours in his first teaching field and/or professional education with an average GPA of 2.50. Courses taken at nonaccredited colleges cannot be applied toward the elementary joint-degree program.

### Admission to Supervised Teaching

Acceptance into the teacher education program does not guarantee assignment for supervised teaching. Application must be made for admission to supervised teaching by filing forms obtained from the education office not later than the first week of the term preceding the quarter for which the assignment is requested. Admission to supervised teaching is based upon attainment of a minimum cumulative GPA of 2.30 and an average GPA of 2.50 in the teaching major, completion of the required professional courses with no grade below "C," and a minimum of thirty term hours completed in residence.

## **ELEMENTARY TEACHING MAJOR**

Students who are admitted to teacher education and have completed satisfactorily the course of study at George Fox College may transfer to Oregon College of Education at Monmouth, Oregon, for their senior year. They receive the Bachelor of Science degree from George Fox College and are recommended to Oregon Board of Education for the Basic Teaching Certificate by Oregon College of Education.

### **Major Requirements**

CA 111 Oral Communication; PHL 210 Introduction to Philosophy; AA 222 Crafts; MUS 111, 112, 113 Fundamentals of Music; HE 310 School Health Programs; BI 101, 103 General Biology; PSY 310 Human Development; AA 495 Special Study; HST 330 Pacific Northwest; ECON 201 Principles of Economics; GEO 200 Introductory Geography; PSC 210 American Government; plus the senior year at Oregon College of Education.

General education requirements must include GE 120 Survey of Art, GSC 101, 102, 103 Foundations of Physical Science, and HST 101, 102 Civilizations for cultural legacy; WR 300 Composition for Teachers and MTH 111, 112, 113 Mathematics for Elementary Teachers for modes of communication; and PSY 201 General Psychology and SOC 201 Principles of Sociology for systems of interpretation. Physical education activities must include an individual or dual sport; rhythms; developmental activities, games, and stunts; a team sport; and gymnastics or self-testing. Several course substitutions for major or general education requirements are possible upon approval of the education department.

## **SECONDARY TEACHER EDUCATION**

Under Oregon school law, five years of collegiate preparation including specified

work in education and in subject fields are required for a standard teaching certificate. However, graduates of accredited colleges and universities who have completed an approved four-year teacher education program may be granted, upon graduation, a basic certificate, which is valid for three years. For renewal of the basic certificate after three years, 24 term hours of work toward the completion of the fifth-year program are required.

Teaching majors are offered in biology, communication arts, integrated science, language arts, mathematics, music, physical education, and social studies. Students preparing for secondary teaching complete the college general education requirements, the secondary teaching requirements listed below, and a teaching major.

Teaching minors provide additional teaching fields for secondary teachers. Students seeking certification in a teaching minor must also complete a teaching major and special methods in the field of the teaching minor.

### **Secondary Teaching Requirements**

ED 310 Social Foundations of Education; ED 320 Psychological Foundations of Education; ED 330 Principles of Secondary Education; ED 340 Teaching Developmental Reading; ED 350 Instructional Media; PSY 310 Human Development; ED 305 September Participation; Teaching of ..... (Special Methods); ED 475 and 490 Supervised Teaching and Seminar. General education requirements must include PSY 201 General Psychology for Systems of Interpretation.

### **Biology (B.S. Degree)**

**Teaching Major Requirements:** Thirty-three term hours of core courses are required including GSC 310 Earth Environment or 320 Air and Water Environment; GSC 370 Environmental Science; BI 101, 102,

elds are certificate. colleges and an application program a basic years. For the first three the courses required. Biology, Science, language arts, preparing college second-year, and

all teachers students or must special minor.

Ed 320  
330 Principles of Teaching Media; Cultural Patterns; Methods); Seminar. include Psychology, Education.

ee term  
GSc 310  
Environment-  
01, 102,

103 General Biology; Bi 350 Genetics; Bi 360 Ecology; Bi 370 General Microbiology; Bi 430 Evolution. General education requirements must include: Ch 111, 112, 113 General Chemistry for cultural legacy; and Mth 195 College Algebra and Ch 231, 232 Organic Chemistry for symbolics.

Twenty-seven term hours in addition to the core are required to complete a major in biology and must include Bi 300 Developmental Biology or Bi 310 Vertebrate Embryology; Bi 330 Physiology or 340 Plant Physiology; Bi 491, 492, 493 Senior Seminar.

**Teaching Minor Requirements:** Requirements identical to the 36-hour core plus the general education courses specified above.

### **Communication Arts (B.A. Degree)**

**Teaching Major Requirements** (provides Oregon certification in drama and speech): Thirty-two term hours of core language arts courses are required including Lit 251 or 252 World Literature, CA 330 Mass Media; Lit 311 or 312 American Literature; Lit 201 or 202 English Literature; Ling 300 General and Cultural Linguistics; Lit 444 Literature for Adolescents; Lit 344 Literary Criticism; and Wr 310 Composition for Teachers. Fifteen hours of speech, including CA 111 Oral Communication and CA 221 Oral Interpretation, and fifteen hours of drama, including CA 120 Introduction to Acting and CA 125 or 165 Theatre Laboratory or Drama Touring Group (three hours minimum), are required in addition to the core courses.

**Teaching Minor Requirements** (provides Oregon certification in either drama or speech): Requirements identical to the 32-hour core in language arts plus fifteen hours in either speech or drama courses as specified in the teaching major requirements.

### **Health**

**Teaching Minor Requirements:** Twenty-four term hours are required including HE 200 Personal Health; HE 210 Community Health Problems; HE 320 Mental Health; HE 390 Safety Education; HE 230 First Aid; HE 310 The School Health Program; HE 300 Nutrition; HE 340 Marriage and Family; HE 350 Communicable and Noncommunicable Diseases; HE 360 Drug Education.

A teaching minor in health may only be combined with teaching majors in physical education, science, or social studies. When combined with physical education, student teaching must include experience in classroom teaching of health.

### **Integrated Science (B.S. Degree)**

**Teaching Major Requirements:** Sixty term hours are required including: Bi 101, 102, 103 General Biology; Ch 111, 112, 113 General Chemistry; GSc 310 Earth Environment; GSc 320 Air and Water Environment; GSc 330 Essentials of Astronomy; GSc 370 Environmental Science; 24 upper division term hours in biology or Ph 201, 202, 203 General Physics and twelve upper division term hours in physics or chemistry. General education requirements must include: Mth 121, 122, 123 Calculus for symbolics.

**Teaching Minor Requirements:** Requirements identical to those for the major.

### **Language Arts (B.A. Degree)**

**Teaching Major Requirements:** Forty term hours of core language arts courses are required including eight term hours selected from CA 111 Oral Communication, CA 221 Oral Interpretation, or CA 120 Introduction to Acting; CA 330 Mass Media; Wr 310 Composition for Teachers; Lit 311 or 312 American Literature; Lit 201 or 202 English Literature; Lit 444 Literature for Adolescents; Lit 473 20th Century Novel or Lit 381 Shakespeare; Lit 344 Literary Criticism; and Ling 300 General and Cultural Linguistics. Sixteen term hours in addition to the core are required to complete a major in language arts and must include the options omitted in the core: CA 111, 221, or 120; Lit 311 or 312; Lit 201 or 202; and Lit 473 or 381. General Education requirements must include Lit 251, 252 World Literature for cultural legacy.

**Teaching Minor Requirements:** Requirements identical to the 40-hour core of language arts courses plus Lit 251 or 252 World Literature.

## **Mathematics (B.S. Degree)**

*Teaching Major Requirements:* Fifty-five term hours are required including Mth 121, 122, 123 Calculus; Mth 321, 322 Modern Algebra; Mth 331 Probability and Statistics; Mth 411, 412 Modern Geometry; Mth 210 Basic Programming; 25 term hours of approved electives in mathematics.

General education requirements must include Ph 201, 202, 203 General Physics for symbolics.

*Teaching Minor Requirements:* Thirty-five term hours are required for the norm in elementary algebra and geometry including Mth 121, 122, 123 Calculus; Mth 210 Basic Programming; Mth 331 Probability and Statistics; Mth 321, 322 Modern Algebra; Mth 411 Modern Geometry.

Eighteen term hours are required for the norm in prealgebra and general mathematics including Mth 121, 122, 123 Calculus and Mth 210 Basic Programming.

## **Music (B.A. Degree)**

*Teaching Major Requirements:* Fifty-four term hours are required including Mus 221, 222, 223 Theory II; Mus 117, 118, 119 Introduction to Music Literature; Mus 311, 312, 313 Music History; Mus 410 Instrumentation and Orchestration; Mus 420 Composition; Mus 201, 202, 203 Elementary Conducting; Mus 430 or 450 Instrumental or Choral Conducting; four hours selected from Mus 210 String Techniques, Mus 230 Woodwind Techniques, Mus 250 Brass Techniques, Mus 260 Percussion Techniques, or Mus 270 Vocal Techniques; Mus 220 Folk Instrument Techniques; two years of private lessons; ten terms of large ensemble; piano proficiency. General education requirements must include Mus 121, 122, 123 Theory I for symbolics.

*Teaching Minor Requirements:* Requirements identical with those for the major.

## **Physical Education (B.S. Degree)**

*Teaching Major Requirements:* Thirty-five term hours of core courses are required including PE 360 Kinesiology; PE 441 Motor Development and Motor Skill Learning; PE 330 Organization and Administra-

tion of Physical Education; PE 200 History and Principles of Physical Education; PE 350 Care and Prevention; PE 230 First Aid; PE 221-229, 231 Professional Activities. General education requirements must include Bi 101, 102, 103 General Biology for cultural legacy; and Bi 320 Human Anatomy, and Bi 330 Physiology, and Mth 240 Statistical Procedures or GE 100 Critical Thinking and Decision Making for symbolics.

Sixteen term hours in addition to the core are required to complete a major in physical education and must include PE 320 Adaptive and Corrective Physical Education, PE 400 Tests and Measurements, PE 430 Exercise Physiology, PE 475 Field Experience (one hour required), and seven term hours of upper division electives in physical education.

*Teaching Minor Requirements:* Requirements identical to the 35-hour core of physical education courses plus Bi 320 Human Anatomy and Bi 330 Physiology.

## **Social Studies (B.A. or B.S. Degree)**

*Teaching Major Requirements:* A minimum of 54 term hours is required including five of the following groups: (1) Hst 201, 202 United States and three to five upper division term hours in American history; (2) Hst 101, 102 Civilizations and three to five upper division term hours in world history; (3) Geo 200, 210 Geography; (4) PSc 210 American Government, PSc 230 State and Local Government, and three to four upper division term hours in political science; (5) Econ 201, 202, 203 Principles of Economics; (6) Soc 201 Principles of Sociology, Soc 202 Social Problems, and three to five upper division term hours in sociology; (7) Psy 201 General Psychology, Psy 310 Human Development, Psy 320 Psychological Foundations of Education, and three to five upper division term hours in psychology; (8) Soc 301 Cultural Anthropology and Soc 332 Ethnic Group Problems. Two of the following must be completed excluding courses counted above: GSc 370 Environmental Science; Soc/PSc/Econ 326 Urban Problems; Soc/PSc/Econ 332 Ethnic Group Problems.

Hst 490 Senior Seminar is required. Courses taken in social science to fulfill general education requirements may not be applied toward the 54 hours. The following courses may simultaneously satisfy requirements in social science and professional education: Psy 310 Human Development and Psy 320 Psychological Foundations of Education.

*Teaching Minor Requirements:* Requirements identical to those for the major. Social science courses may simultaneously satisfy general education requirements when completed as a second teaching field.

## EDUCATION

### Ed 175/375 FIELD EXPERIENCE

1 hour, maximum 6 hours. A laboratory experience consisting of work as a teacher's aide in the classroom of a public school for a minimum of 35 hours during the term. Teacher aide assignments will be made and supervised by the director of teacher education and school district personnel. Prerequisite: Instructor's permission.

### Ed 305 SEPTEMBER PARTICIPATION

0 hours. A two-week period of observation in the home school of the teacher education candidate at the opening of the public school year. Intended to provide a laboratory experience immediately prior to the junior sequence of professional education courses. Admission by application only.

### Ed 310 SOCIAL FOUNDATIONS OF EDUCATION

3 hours. An introduction to the American educational system from a social and cultural perspective with emphasis upon the role of minority groups in a democratic society.

### Ed 320 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

4 hours. A study of psychological basis of learning processes including individual and group differences. Intended to relate the student's understanding of factors affecting learning, thinking, memory, transfer

of training, use of learning experiences, learning climate, and other pertinent factors to modern classroom practices. Identical with Psy 320. Prerequisite: Psy 201 General Psychology, or permission of the instructor.

### Ed 330 PRINCIPLES OF SECONDARY EDUCATION

2 hours. A study of general principles of education methodology. Designed to develop competency in setting learning goals, planning teaching units, managing classroom activities, reporting pupil progress, and other related tasks. Prerequisite: Admission to the teacher education program, Ed 310 Social Foundations of Education, or permission of the instructor.

### Ed 331 SECONDARY EDUCATION I

7 hours, fall term. An integration of Social Foundations of Education and Psychological Foundations of Education with extensive field experience in secondary schools. Prerequisites: Admission to teacher education, two credits in Ed 175 Field Experience or Ed 305 September Participation, and Psy 310 Human Development.

### Ed 332 SECONDARY EDUCATION II

7 hours, winter term. An integration of Principles of Secondary Education, Instructional Media, and Teaching Developmental Reading with extensive field experience in secondary schools. Prerequisite: Ed 331 Secondary Education I.

### Ed 340 TEACHING OF DEVELOPMENTAL READING

3 hours. Designed to develop competencies in a program of pupil progress and growth in reading from kindergarten through grade twelve. Deals with such basic aspects as readiness, skills in diagnosing pupils' needs, the interrelatedness of reading, composition, and other language understandings, study skills, reading rate, and comprehension.

### Ed 350 INSTRUCTIONAL MEDIA

2 hours. Designed to prepare the prospective teacher as well as the professional in many other fields to select, produce, and use instructional media such as pictures, posters, bulletin boards, transparencies,

slides, recordings, films, television, and programmed instruction to implement learning. Two lectures and one laboratory period per week. Identical with CEd 350.

**Ed 410 TEACHING OF PHYSICAL EDUCATION**

5 hours. An analysis of objectives, curriculum construction and program planning, unit and lesson plans, instructional methods, and evaluation procedures. Prerequisite: Ed 330 Principles of Secondary Education.

**Ed 421, 422, 423 PUBLIC SCHOOL MUSIC METHODS**  
3 hours, fall term; 4 hours, winter term. A certain degree of piano proficiency is required. A survey of aims, methods, materials, and repertoire used in teaching music in elementary and secondary schools. Prerequisite: Ed 330 Principles of Secondary Education.

**Ed 430 TEACHING OF LANGUAGE ARTS**

4 hours. Methods of teaching secondary level courses in language arts, drama, and speech, emphasizing objectives, curriculum, procedures, and materials. Prerequisite: Ed 330 Principles of Secondary Education.

**Ed 440 TEACHING OF SCIENCE**

3 hours. Current philosophies and practices in teaching science at the secondary level. Provides experience in preparation, presentation, and evaluation of lessons, including observation in public school science classes. Prerequisite: Ed 330 Principles of Secondary Education.

**Ed 450 TEACHING OF MATHEMATICS**

3 hours. The development, curriculum, and teaching techniques of mathematics at the secondary school level, with observations of exemplary public school mathematics programs. Prerequisite: Ed 330 Principles of Secondary Education.

**Ed 460 TEACHING OF THE SOCIAL STUDIES**

3 hours. The objective, curriculum, procedures, evaluation, instructional materials, and resources in teaching social studies including observations and

demonstrations. Prerequisite: Ed 330 Principles of Secondary Education.

**Ed 475 SUPERVISED TEACHING**

12 hours. A laboratory experience in which principles and methods of teaching may be employed under supervision. A full-day, full-term assignment in which direct responsibility for planning and implementing learning activities is provided. Admission by application only.

**Ed 485 SELECTED TOPICS**

1-3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

**Ed 490 SUPERVISED TEACHING SEMINAR**

3 hours. Designed to provide liaison between the college and the public school during the supervised teaching experience. Teaching methods, professional ethics, and self-analysis of teaching behavior will be discussed. Must be taken concurrently with Ed 475 Supervised Teaching. Admission by application only.

## **HEALTH EDUCATION**

**HE 200 PERSONAL HEALTH**

2 hours. Offered 1977-78 and alternate years. The basic scientific principles of healthful living applied to problems confronting children and youth. Emphasis on hygienic care of the body; rest, sleep, exercise; selection of health products; and smoking and health.

**HE 210 COMMUNITY HEALTH PROBLEMS**

2 hours. Offered 1976-77 and alternate years. A study of community health problems with particular emphasis on environmental and occupational health; child welfare; suicide; venereal disease; population explosion; and the role of governmental and voluntary health agencies.

**HE 230 FIRST AID**

2 hours. Offered 1977-78 and alternate years. Identical with PE 230.

#### **HE 300 NUTRITION**

4 hours. Identical with HEc 200/300.

#### **HE 310 THE SCHOOL HEALTH PROGRAM**

3 hours. Offered 1977-78 and alternate years. Purposes and procedures of health service and instruction in the schools. Special emphasis on construction of health teaching units and selection of methods and materials.

#### **HE 320 MENTAL HEALTH**

2 hours. Offered 1976-77 and alternate years. Introduction to the study of mental health, including personality development and emotional adjustment. Deals with the prevention of mental illness with emphasis upon the teacher's role in providing an emotional climate conducive to health.

#### **HE 340 MARRIAGE AND FAMILY**

3 hours. Offered 1976-77 and alternate years. Identical with Soc 340.

#### **HE 350 COMMUNICABLE AND NONCOMMUNICABLE DISEASES**

2 hours. Offered 1976-77 and alternate years. Stresses the nature, prevention, and control of common diseases. Also deals with the major chronic health problems.

#### **HE 360 DRUG EDUCATION**

2 hours. Offered 1977-78 and alternate years. Problems concerned with the use and abuse of selected pharmacological agents. Social, psychological, physical, and moral implications are considered.

#### **HE 370 ENVIRONMENTAL SCIENCE**

3 hours. Offered 1976-77 and alternate years. Identical with GSc 370.

#### **HE 390 SAFETY EDUCATION**

2 hours. Offered 1977-78 and alternate years. Study of behavior related to accidents with emphasis on accident prevention and effective methods in safety education programs.

#### **HE 285/485 SELECTED TOPICS**

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

### **PHYSICAL EDUCATION (B.S. Degree)**

#### **General Requirements in Physical Education**

Six hours of physical education are required to complete the college general education requirement. This requirement may be satisfied in the following ways:

1. One hour physical education activity or adapted activity classes.
2. Any health class will satisfy two hours of the requirement.
3. Up to three hours may be waived upon successful completion of proficiency tests in selected areas. A current Senior Life Saving certificate or a current First Aid card will waive two hours without further examination.
4. Two credits toward the six-hour requirement may be earned on intercollegiate athletic teams.
5. All Professional Activity classes meet two hours of the requirement.

#### **Major Requirements**

A student must complete a minimum of 65 hours in physical education, 38 of which must be upper division courses, including PE 200 History and Principles of Physical Education; PE 221-229, 231 Professional Activities; PE 230 First Aid; PE 320 Adaptive and Corrective Physical Education; PE 330 Organization and Administration of Physical Education; PE 350 Care and Prevention of Athletic Injuries; PE 360 Kinesiology; PE 400 Tests and Measurements in Physical Education; PE 430 Exercise Physiology; Ed 410 Teaching of Physical Education; PE 441 Motor Development and Motor Skill Learning; PE 475 Field Experience in Physical Education. Courses selected to satisfy general education requirements should include Bi 101, 102, 103 General Biology; Bi 320 Human Anatomy; Bi 330 Physiology; and Psy 340 Statistical Analysis.

Procedures or GE 100 Critical Thinking and Decision Making.

See beginning of chapter for description of secondary teaching major.

### **Physical Education and Religion**

An interdisciplinary major may be elected from the fields of physical education and religion. A minimum of 72 term hours is required for the major and may be distributed according to the following options:

*Option I*—A minimum of 36 hours in the Division of Religion (consult division for specific courses and requirements for the Bachelor of Arts degree) and eighteen hours in health and physical education to include PE 227 Professional Activities Aquatics, PE 230 First Aid, PE 370 or 380 Camp Leadership or Recreational Leadership, PE 475 Field Experience, and eight additional hours selected from PE 300 Organization and Administration of Intramural Sports, PE 229 Professional Activities Rhythms, PE 231 Professional Activities Developmental Activities, Games, and Stunts, Ed 410 Teaching Physical Education, PE 330 Organization and Administration of Physical Education, HE 390 Safety Education, HE 360 Drug Education, HE 320 Mental Health, PE 370 or 380 Camp Leadership or Recreational Leadership.

*Option II*—A minimum of 36 hours in health and physical education, to include all the courses in health and physical education listed in Option I and eighteen hours in the Division of Religion.

For either option eighteen hours from one field or nine hours from two fields must be selected from: art, education, psychology, music, science, speech, drama, sociology, business, Spanish, and political science.

#### **PE 101-119 PHYSICAL EDUCATION ACTIVITIES**

1 hour. Six hours of credit required for graduation. (Two hours of health education may fulfill two hours of the required six hours.) Instruction in fundamental skills, rules, and strategy. Personal selection may be made from a variety of sports, recreational, and leisure-time activities as they are scheduled each

term. Each activity may be repeated once as an advanced number beginning with a "3."

#### **PE 125/135 ADAPTED ACTIVITIES**

1 hour. Six hours of credit required for graduation. Offered to those men (125) and women (135) who are unable to participate in regular physical education activities because of physical limitation. A statement from the student's physician is required.

#### **PE 145, 245, 345, 445 ATHLETICS**

1 hour. Participation on athletic teams applicable to meeting the general education requirements in physical education. Not more than two hours may be earned in any sport nor more than three hours applied toward general education.

#### **PE 200 HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION**

3 hours. Offered 1976-77 and alternate years. A survey of the development of physical education with emphasis upon fundamental principles and modern programs.

#### **PE 221 CO PROFESSIONAL ACTIVITIES**

2 hours. Offered 1976-77 and alternate years. Advanced instruction in skills, teaching techniques, rules, and strategy for basketball and volleyball.

#### **PE 222 M/W PROFESSIONAL ACTIVITIES**

2 hours. Offered 1976-77 and alternate years. Advanced instruction in skills, teaching techniques, rules, and strategy covering touch football and soccer for men and speedball and field hockey for women.

#### **PE 223 CO PROFESSIONAL ACTIVITIES**

2 hours. Offered 1977-78 and alternate years. Advanced instruction in skills, teaching techniques, spotting, and safety factors involved in tumbling and gymnastics.

#### **PE 224 CO PROFESSIONAL ACTIVITIES**

2 hours. Offered 1976-77 and alternate years. Advanced instruction in skills, teaching techniques, rules, and strategy for softball and track.

**PE 225 CO PROFESSIONAL ACTIVITIES**

2 hours. Offered 1977-78 and alternate years. Advanced instruction in skills, teaching techniques, rules, and strategy covering badminton, bowling, and handball for men or recreational games for women.

**PE 226 CO PROFESSIONAL ACTIVITIES**

2 hours. Offered 1977-78 and alternate years. Advanced skills and game techniques in tennis, golf, and archery with tournament organization and administration applied.

**PE 227 CO PROFESSIONAL ACTIVITIES**

2 hours. Offered 1977-78 and alternate years. Advanced skills in aquatics dealing with water safety and performance strokes as well as water games.

**PE 228 M/W PROFESSIONAL ACTIVITIES**

2 hours. Offered 1977-78 and alternate years. Advanced instruction in skills, teaching techniques, and strategy relating to wrestling and conditioning for men; and movement, body mechanics, and conditioning for women.

**PE 229 CO PROFESSIONAL ACTIVITIES**

2 hours. Offered 1976-77 and alternate years. Advanced skills in folk rhythms, international folk games, and basic forms of locomotion.

**PE 230 FIRST AID**

2 hours. Offered 1977-78 and alternate years. Instruction in first aid, leading to the standard and advanced American Red Cross certificate.

**PE 231 DEVELOPMENTAL ACTIVITIES, GAMES, AND STUNTS**

2 hours. Offered 1977-78 and alternate years. Emphasis on mechanics of movement; games of low organization; fundamental sports skills; stunts and tumbling; and self-testing activities.

**PE 300 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL PROGRAMS**

2 hours. Offered 1976-77 and alternate years. A study of the construction of intramural programs including objectives, methods, materials, and typical

problems. Laboratory experience in the college intramural program.

**PE 320 ADAPTIVE AND CORRECTIVE PHYSICAL EDUCATION**

2 hours. Offered 1976-77 and alternate years. Special instruction in therapeutic applications of physical education to the handicapped student.

**PE 330 THE ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION**

3 hours. Offered 1976-77 and alternate years. Instruction in the planning and implementing of programs of physical education including designing the curriculum; budgeting and purchasing; and using buildings, grounds, and recreational areas. Professionalism in conduct and ethics is stressed.

**PE 340 M/W RULES AND OFFICIATING**

2 hours. Offered 1976-77 and alternate years for men, annually for women. Advanced training and practice in officiating basketball, football, and baseball for men and field hockey, volleyball, basketball, and softball for women, with emphasis on mechanics and professional ethics.

**PE 350 THE CARE AND PREVENTION OF ATHLETIC INJURIES**

2 hours. Offered 1976-77 and alternate years. A course dealing with the prevention of, first aid for, and therapy for athletic injuries. Special attention is given to the organization and management of the training room.

**PE 360 KINESIOLOGY**

3 hours. Offered 1976-77 and alternate years. Application of human anatomy and physical laws to the explanation of movement activities. Special emphasis is given to detailed analysis of various sports activities. Prerequisite: Bi 320 Human Anatomy

**PE 370 CAMP LEADERSHIP**

3 hours. Offered 1976-77 and alternate years. Instruction in camp leadership emphasizing methods and materials needed in administration of camping

programs. Relationship to crafts, outdoor activities, and recreational sports and games is stressed.

**PE 380 RECREATIONAL LEADERSHIP**

3 hours. Offered 1977-78 and alternate years. An application of leadership techniques, methods, and materials to recreational activities for home, school, church, camp, and community.

**PE 390 SAFETY EDUCATION**

2 hours. Offered 1977-78 and alternate years. Identical with HE 390.

**PE 400 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION**

3 hours. Offered 1976-77 and alternate years. Emphasis is given to the importance of evaluation in programs of physical education. Testing procedures, standard tests, physical examinations, and evaluation activities are discussed.

**PE 410 COACHING OF FOOTBALL**

2 hours. Offered 1976-77 and alternate years. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.

**PE 420 COACHING OF BASKETBALL**

2 hours. Offered 1977-78 and alternate years. An analysis of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and techniques of scouting are stressed.

**PE 430 EXERCISE PHYSIOLOGY**

3 hours. Offered in 1977-78 and alternate years. Application of principles of physiology to physical activity. Special attention is given to the effect of exercise on the various body systems and the construction of training programs. Prerequisite: Bi 330 Physiology.

**PE 441 MOTOR DEVELOPMENT AND MOTOR SKILL LEARNING**

2 hours. A study of the development of motor skills with specific application of the psychological prin-

ciples of learning to motor skill learning. A review of research and an inquiry into the effect of various conditions on the learning and performance of motor skills.

**PE 450 COACHING OF BASEBALL**

2 hours. Offered 1976-77 and alternate years. A study of systems of play, principles of offense and defense, and strategies of the game. The organization of practice sessions, administration of games, and the techniques of scouting are stressed.

**PE 460 COACHING OF TRACK AND FIELD**

2 hours. Offered 1977-78 and alternate years. A study of the principles of coaching each event. The organization of practice sessions and the strategy for and administration of meets.

**PE 475 FIELD EXPERIENCE IN HEALTH, PHYSICAL EDUCATION, AND RECREATION**

1-5 hours. Supervised experience in health, physical education, or recreation institutions. Prerequisite: Consent of instructor.

**PE 485 SELECTED TOPICS**

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

**PE 295/495 SPECIAL STUDY**

1-3 hours. Individual research under the guidance of the faculty. Prerequisite: Consent of instructor.

# Division of Fine and Applied Arts

Basic objectives of the division are:

1. To give students an opportunity to acquire an appreciation of art, a knowledge of art fundamentals, and a basic foundation for further study in art.
2. To give students an opportunity to acquire an appreciation of music through chapel programs, recitals, and concerts.
3. To give all students an understanding of music through general courses such as Survey of Music, Applied Music, Music Ensembles.
4. To equip talented students with skills needed to pursue a career in music.

## ART

### GE 120 SURVEY OF ART

2 hours. An introductory course that explores the historic and cultural significance of painting, sculpture, architecture, and other art forms.

### AA 111, 112 BASIC DESIGN

2 hours each term. Introduction to three dimensional design as it applies to architecture and sculptural forms in ceramics, wood, metal, and plaster.

### AA 210, 220, 230 CERAMICS

2 hours each term. To be taken in sequence. Offered on sufficient demand. Individual projects with emphasis on design and form. Practice in ceramic techniques and use of related materials: hand building, molding, glazing, and firing.

### AA 211, 212, 213 STUDIO ART

2 hours each term. Fall term: drawing with pencil, charcoal, and pen and ink. Winter and spring terms: painting, sculpture, ceramics, printing.

### AA 222 CRAFTS

2 hours. Techniques for development of an art program in the elementary classroom including: methods, materials, and a wide variety of media.

### AA 231, 232/331, 332 LETTERING

2 hours each term. Offered on sufficient demand. Work with flat-edged pen, brush, and Speedball pen; a study of italic letter forms and an introduction to other letter forms; and an analysis of problems of layout and design.

### AA 295/495 SPECIAL STUDY

1-3 hours. Special projects by permission of the instructor.

## MUSIC (B.A. Degree)

### Major Requirements

A student must complete a minimum of 54 term hours in music in addition to private lessons and ensemble classes. Students must enroll in piano class until they pass a proficiency test. Mus 121, 122, 123 Theory I fulfills the symbolics requirement in general education. Required courses: Mus 117, 118, 119 Introduction to Music Literature; Mus 221, 222, 223 Theory II; Mus 201, 202, 203 Elementary Conducting; Mus 311, 312, 313 Music History; Mus 310 Counterpoint; Mus 320 Form and Analysis; Mus 420 Composition; and Mus 491, 492, 493 Senior Seminar. Students must enroll in an applied lesson and a large ensemble each term they are registered as a major.

See the Division of Education for description of requirements for secondary teaching majors and minors.

### Interdisciplinary Majors (B.A. Degree)

*Music and Religion.* An interdisciplinary major may be elected from the field of music and religion. A minimum of 72 term hours is required for the Music and Religion major and must be distributed as follows: a minimum of 36 hours in music; eighteen hours in religion; and nine hours in two of the following fields: art, education, psychology, science, communication arts, drama, sociology, business, Spanish, political science, and physical education. A student may elect one eighteen-hour block rather than



two nine-hour blocks. The recommended 36 hours of music courses are: Music Theory I, Elementary Conducting, Vocal Techniques, Folk Techniques (Guitar), Church Music, Music History, Applied Lessons, and Ensemble. The eighteen hours taken in the Division of Religion may be chosen from the fields of Christian ministries, Bible, philosophy, and religion after consultation with the religion faculty.

*Religion and Music.* See Division V for description of the Religion and Music major.

### **Minor Requirements**

A student must complete a minimum of 21 term hours in addition to two years of private lessons and ensemble experience. Required courses: Mus 117, 118, 119 Introduction to Music Literature; Mus 121, 122, 123 Theory I; and either Mus 201, 202, 203 Elementary Conducting or three hours of music elective.

### **Applied Music**

Individual instruction is offered in piano, organ, strings, woodwinds, brass, percussion, and guitar. Private lessons carry one term hour credit for one lesson per week. Music majors are required to enroll in applied music lessons each term they are listed as a major. Music Education majors are required to enroll in applied lessons for two years or until they complete a half recital. All students enter the applied program at the 100 level and automatically advance to the 200 level. However, before being advanced to upper division study, the student must pass a faculty jury. All students are expected to perform periodically in studio or public recital. However, no student who has not advanced to upper division study levels will be permitted to present a full or half recital.

#### **Mus 105, 205, 305, 405 VOICE**

1 hour. Study of proper voice production with emphasis on posture, breathing, and resonance. Studies from the standard repertoires including English songs, Italian classics, German lieder, French art songs, oratorio and operatic arias, and selected contemporary works.

#### **Mus 105, 205, 305, 405 PIANO**

1 hour. Technical exercises, scales and arpeggios in various rhythms, etudes of varying difficulty such as those by Duvernoy, Burgmuller, Heller, Czerny, and Clementi. Preludes and fugues, suites and partitas, and Bach's inventions. Sonatas by Mozart, Haydn, Beethoven, and Schubert. Selected concertos. Compositions by romantic and modern composers.

#### **Mus 105, 205, 305, 405 ORGAN**

1 hour. Basic study of pedal and manual techniques. Standard works from the Baroque, Classic, Romantic, and Modern periods.

#### **Mus 105, 205, 305, 405 STRINGS**

1 hour. Instruction on violin, viola, cello, and string bass. Basic fundamentals, posture, bow and arm techniques, shifting, and vibrato. Scales and arpeggios. Representative studies. Sonatas and concertos. Orchestral studies.

#### **Mus 105, 205, 305, 405 WOODWINDS**

1 hour. Instruction on flute, clarinet, oboe, and bassoon. Tone production, scales, and arpeggios in various articulations. Technical studies. Works from the standard solo repertoire. Orchestral studies.

#### **Mus 105, 205, 305, 405 BRASS**

1 hour. Instruction on trumpet, French horn, trombone, baritone, and tuba. Emphasis upon breath control, tone production, embouchure development, and tonguing techniques. Technical studies and solo works selected from representative composers with respect to the student's performing level.

#### **Mus 105, 205, 305, 405 PERCUSSION**

1 hour. Instruction on snare drum and various percussion instruments. Reference study of all percus-

sion instruments used in concert band and symphony orchestra performances.

**Mus 105, 205, 305, 405 GUITAR**

1 hour. Study of playing techniques with emphasis on chordal knowledge and basic strums. Solos and ensemble pieces will be included for each student at his performance level.

**Ensemble Music**

**Mus 115, 215, 315, 415 ORATORIO CHOIR**

1/2 hour. The oratorio choir is open to all college students and performs sacred music for large choirs. Performances are accompanied by the college orchestra.

**Mus 125, 225, 325, 425 A CAPPELLA CHOIR**

1 or 1/2 hour. The a cappella choir consists of students selected by audition. Representative choral music from the Renaissance to the twentieth century is studied. An extended choir tour is made each year.

**Mus 125s, 225s, 325s, 425s MUSIC THEATRE**

1 or 1/2 hour. This course is for the training of music students in the performance of staged musical dramas, both opera and Broadway musicals. One major production will be presented each year in addition to selected scenes from several works.

**Mus 135, 235, 335, 435 VOCAL ENSEMBLE**

1 or 1/2 hour. This ensemble performs in winter and spring terms for community organizations.

**Mus 145, 245, 345, 445 CONCERT BAND**

1 or 1/2 hour. Standard band works are performed at three annual concerts. An extended tour is made each year. Admission by consent of the instructor.

**Mus 145s, 245s, 345s, 445s JAZZ ENSEMBLE**

1/2 hour. A course to train music educators in jazz literature through performance for athletic events and public concerts.

**Mus 155, 255, 355, 455 ORCHESTRA**

1 or 1/2 hour. Literature for the small orchestra is performed at two formal concerts in the spring. The

orchestra also provides the accompaniment for the oratorio choir in the fall.

**Mus 165, 265, 365, 465 INSTRUMENTAL ENSEMBLE**

1/2 hour. Each ensemble must have at least three members. Music performed will be chosen in co-operation with the instrumental faculty.

**Music Theory and Literature**

**GE 110 SURVEY OF MUSIC**

2 hours. A survey of the important historical periods of music designed to acquaint the liberal arts student with the major composers and their representative works. Identical with Mus 112 Music Fundamentals.

**Mus 111, 112, 113 MUSIC FUNDAMENTALS**

2 hours each term. Fall term, Mus 111 elementary theory; a study of the principles of notation, melody, rhythm, scales, and chords. Winter term, Mus 112; identical with GE 110 Survey of Music. Spring term, Mus 113; methods for teaching music in the elementary school.

**Mus 117, 118, 119 INTRODUCTION TO MUSIC LITERATURE**

2 hours each term. A course to develop music appreciation through extensive listening to standard works. Study of vocal and instrumental forms and styles of the various periods.

**Mus 121, 122, 123 THEORY I**

4 hours each term. An integrated course in basic musicianship, ear training, sight singing, dictation, keyboard harmony, analysis, and part writing. Includes all diatonic harmonies and simple modulations.

**Mus 131, 132, 133 CLASS PIANO I**

1 hour each term. Elementary class instruction in piano. Required of music majors unless waived by demonstration of acceptable proficiency.

**Mus 201, 202, 203 ELEMENTARY CONDUCTING**

1 hour each term. Emphasis on mastery of simple conducting patterns, cues, expressive gestures, and

common problems in leading group singing and small instrumental ensembles.

#### Mus 210 STRING TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing stringed instruments (one term of violin and one of cello are offered) to provide adequate teaching knowledge.

#### Mus 220 FOLK INSTRUMENT TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing folk guitar to provide adequate teaching knowledge.

#### Mus 221, 222, 223/321, 322, 323 THEORY II

4 hours each term. A continuation of Theory I. Includes chromatic harmonies and remote modulations. Introduction to twentieth century harmonic usage. Creative work is required. Prerequisite: Mus 121, 122, 123 Theory I.

#### Mus 230 WOODWIND TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing woodwind instruments (one term of clarinet and one of flute are offered) to provide adequate teaching knowledge.

#### Mus 231, 232, 233 CLASS PIANO II

1 hour each term. A continuation of Piano Class I. Required of music majors unless waived by demonstration of acceptable proficiency.

#### Mus 234 CLASS PIANO II, Proficiency

No credit. Required of music majors who have not passed piano proficiency after two years of study. Can be repeated. Prerequisites: Mus 131, 132, 133 Class Piano I and Mus 231, 232, 233 Class Piano II.

#### Mus 250 BRASS TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing brass instruments to provide adequate teaching knowledge.

#### Mus 260 PERCUSSION TECHNIQUES

1 hour. Elementary class instruction in the techniques of playing percussion instruments to provide adequate teaching knowledge.

#### Mus 270 VOCAL TECHNIQUES

1 hour. Elementary class instruction in the techniques of singing to provide adequate teaching knowledge. Recommended for the beginning voice student to gain a knowledge of basic singing techniques.

#### Mus 310 COUNTERPOINT

3 hours. Offered 1976-77 and alternate years. Principles of eighteenth century polyphony. Detailed study of the works of J. S. Bach and his contemporaries. Original composition required. Recommended for all music majors.

#### Mus 311, 312, 313 MUSIC HISTORY

3 hours each term. A study of the development of music from antiquity through the twentieth century. Comparisons are made to the development of the other arts. Concentrated study of music literature emphasizing the change in musical styles during the different historical periods. Prerequisites: Mus 121, 122, 123 Theory I and Mus 117, 118, 119 Introduction to Music Literature.

#### Mus 320 FORM AND ANALYSIS

3 hours. Offered 1977-78 and alternate years. Detailed study of the structural components of music, including the motive, phrase, and period. Application to principal contrapuntal and homophonic forms of the Classic, Romantic, and Modern periods. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

#### Mus 340 CHURCH MUSIC

3 hours. Offered 1977-78 and alternate years. A study of the place, function, and contribution of music in the church with emphasis on current trends in contemporary church music. Recommended for any student anticipating a church vocation.

### **Mus 410 INSTRUMENTATION AND ORCHESTRATION**

3 hours. Offered 1976-77 and alternate years. A study of the instruments of the orchestra and band including their ranges, characteristics, and capabilities. Practical application of the principles of arranging and scoring for orchestra-band instrumental combinations. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

### **Mus 420 COMPOSITION**

3 hours. Offered 1976-77 and alternate years. Detailed study of representative works in the contemporary musical idiom and creative writing in the smaller forms. Prerequisites: Mus 121, 122, 123 Theory I and Mus 221, 222, 223 Theory II.

### **Mus 430 INSTRUMENTAL CONDUCTING**

2 hours. Offered 1977-78 and alternate years. Designed to acquaint the student with the intricacies of directing band, orchestra, and instrumental ensembles. Basic conducting patterns are reviewed, literature of the aforementioned ensembles is covered, and some practical experience is given with the college band and small instrumental ensembles.

### **Mus 450 CHORAL CONDUCTING**

2 hours. Offered 1976-77 and alternate years. Designed primarily for music majors. Advanced work in traditional and modern patterns of conducting, syncopation, cueing, and expressive gestures. Practical experience in directing the a cappella choir is provided.

### **Mus 475 FIELD EXPERIENCE**

1-5 hours. Supervised experience in music apprenticeship as conductor, performer, composer, etc. Prerequisite: Consent of music faculty.

### **Mus 485 SELECTED TOPICS**

1-3 hours. A seminar lecture class concerned with current faculty interests and areas of research. Topics available are Keyboard Pedagogy, Keyboard Improvisation, Hymnology, Language Orientation for the

Singer, Contemporary Literature, Moog Synthesizer, Vocal Pedagogy, History of Black Music, and Chamber, Symphonic, and Choral Literature.

### **Mus 491, 492 SENIOR SEMINAR**

1 hour fall term, 2 hours winter term. Fall term is designed to bring music majors together for seminar sessions. Winter term is designed to have each student prepare a project, which will be presented before an audience and filed permanently in the music department.



# Division of Language Arts

Basic objectives of this division are:

1. To help students to communicate accurately, effectively, and logically in both oral and written expression.
2. To introduce students to the implications of modern media for communication.
3. To acquaint students with the language, literature, attitudes, and ideas of other nations and cultures.
4. To challenge students with significant ideas that grow out of world thinking and enlarge their understanding, appreciation, and enjoyment of literature.
5. To prepare students for employment and for graduate study in their chosen field or profession. A Language Arts major would be useful preparation for such fields as teaching, writing, editing, publishing, seminary, library science, theatre arts, business, law, and other communication-related vocations.

## Major Requirements

The Division of Language Arts offers majors in English Literature and Communication Arts as well as secondary teaching majors in both of these fields. (See Division of Education for description of teaching programs.)

Students selecting any of these majors will complete the requirements specified in General Education for a B.A. degree and complete the requirements specified in the major selected. (See each major for specified requirements.)

## COMMUNICATION ARTS (B.A. Degree)

Communication Arts features an interdisciplinary approach to communication that integrates the interests of speech communica-

tion, drama, journalism, and media with a common core of courses in communication and rhetorical theory.

### Major Requirements

*Total major hours:* Fifty-four hours (24 hours lower division; 30 hours upper division). Communication Arts majors must take Psy 201 General Psychology as part of the General Education program. Soc 201 Principles of Sociology and Psy 340 Statistical Procedures are recommended.

**Core Courses:** The following courses are required of all Communication Arts majors: CA 110 Interpersonal Communication; CA 111 Oral Communication; CA 200 Communication Theory; CA 205 Communications Workshop; CA 400 Critical Approaches to Communication or CA 410 The Interface of Christianity and Communication Arts; CA 490 Senior Seminar.

**Electives:** Communication Arts majors must choose from among the courses below at least 30 hours, 22 of which must be upper division offerings. Courses other than these may be substituted with the approval of advisor and division chairman. AA 110, 111 Basic Design; CA 120 Introduction to Acting; CA 125/325 Theatre Laboratory; CA 165/365 Drama Touring Group; CA 220 Spoken English; CA 221 Oral Interpretation; CA 230 Introduction to Journalism; Lit 254 Introduction to Drama; CA 285/485 Selected Topics; Psy 300 Group Dynamics; Ling 300 General and Cultural Linguistics; Wr 315 Creative Writing; CA 305 Communications Workshop; CA 310 Persuasive Communication; CA 320 Advanced Approaches to Acting; Lit 324 Contemporary Drama; CA 330 Studies in Mass Media and Popular Culture; Ed 350 Instructional Media; Soc 350 Social Psychology; CA 495 Individual Research, Field Work.

### CA 110 BRIDGES, NOT WALLS: AN INTRODUCTION TO INTERPERSONAL COMMUNICATION

4 hours. Introduction to theory and practice of dyadic and small group communication through preparation of and participation in interpersonal communication

experiences. Attention given to intrapersonal communication, nonverbal communication, and listening behavior.

**CA 111 THE RHETORICAL IDIOM: AN INTRODUCTION TO ORAL COMMUNICATION**

4 hours. Introduction to speech communication in semiformal and formal settings. Emphasis upon analysis of rhetorical situations, design of rhetorical strategies, and evaluation of communicative efforts. Students will prepare and deliver speeches in several rhetorical contexts.

**CA 120 THE MAGIC IF: AN INTRODUCTION TO ACTING**

4 hours. Offered 1977-78 and alternate years. Study of basic principles of acting, including survey of acting theories, performance of scenes, critical observation, analysis and criticism of productions.

**CA 125/325 ONSTAGE, BACKSTAGE: THEATRE LABORATORY**

1-2 hours. The practical application of theatre techniques in connection with dramatic productions. Open to any student taking part in productions. Must be taken on pass-no pass basis. Maximum twelve hours total.

**CA 165/365 INTER-MISSION: DRAMA TOURING GROUP**

1 hour each term for three terms. Entrance by tryout for the current religious drama touring group. Students are expected to remain with the troupe the entire year. Must be taken on pass-no pass basis. Maximum six hours total.

**CA 200 NO GAPS: AN INTRODUCTION TO COMMUNICATION THEORY**

4 hours. Study of the process and theories of communication. Historical perspective on development of major rhetorical theories. Consideration of current knowledge in intrapersonal, interpersonal, mass, and cross-cultural communication.

**CA 205/305 CREATIVITY STREET: COMMUNICATION WORKSHOP**

1-4 hours. A course designed to provide supervised experience in aspects of communication—journalism, format design, photography, editorial writing, and media production. A maximum of six hours credit may be earned. Prerequisite: CA 110 or 111. Students entering the class for four hours credit must have permission from the instructor.

**CA 220 LOUD AND CLEAR: AN INTRODUCTION TO SPOKEN ENGLISH**

4 hours. Offered 1976-77 and alternate years. Study of sounds, rhythms, and intonation of English. Introduction to the International Phonetic Alphabet. Basic instruction in vocal production and articulation.

**CA 221 WORD-STITCHING, TALE-TELLING: AN INTRODUCTION TO THE ORAL INTERPRETATION OF LITERATURE**

4 hours. Offered 1977-78 and alternate years. Introduction to the aesthetic basis of speech communication through the analysis and oral presentation of various genres of literature. Attention given the development of skills requisite to understanding literature and communicating its levels of meaning by reading aloud. Includes consideration of oral reading of biblical literature.

**CA 230 THE FOURTH ESTATE: AN INTRODUCTION TO JOURNALISM**

4 hours. A course designed to give fundamental knowledge and practice in reporting, writing, and editing the news; writing features and editorials; studying the organization and techniques of newspapers and other media of mass communication. Prerequisite: Permission of instructor.

**CA 285/485 SELECTED TOPICS**

4 hours. A variety of topics may be offered that reflect interests of faculty, visiting professors, or recent issues in communication. Prerequisite: CA 110, 111, or 200. Permission of instructor is required for upper division credit.

**CA 310 VISIONS AND UNVISIONS: STUDIES IN PERSUASIVE COMMUNICATION**

4 hours. Offered 1976-77 and alternate years. Focus on methods of attitude change in public discourse, small group communication, and mass media. Critical examination of propaganda techniques. Analysis of current behavioral research in persuasion. Preparation of student speeches and other rhetorical efforts intended to influence attitudes. Prerequisite: CA 110, 111, or 200.

**CA 315 THE POISED PEN: PUBLICATIONS PRACTICUM**

1 hour each term. An advanced course in the producing of student publications including the newspaper and yearbook. Entrance by permission of instructor. Maximum six hours credit. Must be taken on pass-no pass basis.

**CA 320 VERISIMILITUDE AND BEYOND: ADVANCED APPROACHES TO ACTING**

4 hours. Offered 1976-77 and alternate years. Problems of characterization, styles, and characteristics of acting in various dramatic media; emphasis on improvisations; instruction in movement and timing; presentation of scenes of various types. Additional hours required. Prerequisite: CA 120 or permission of instructor.

**CA 330 HUNGRY EYES AND THIRSTY EARS: STUDIES IN MASS MEDIA AND POPULAR CULTURE**

4 hours. Offered 1977-78 and alternate years. Survey of the historical development of newspapers, magazines, broadcast media, and cinema. Analysis of the role(s) of mass media in shaping and altering opinion and values in contemporary culture.

**CA 400 THE MANY-WINDOWED HOUSE: CRITICAL APPROACHES TO COMMUNICATION**

4 hours. Offered 1977-78 and alternate years. Methods of rhetorical criticism as applied to public communication of the past and present including, but not limited to, speeches, broadcasts, films, and campaigns. Analysis of current trends in rhetorical criti-

cism. Prerequisite: CA 200 and either CA 310 or 330, or permission of instructor.

**CA 410 NO MAN'S LAND: STUDIES IN THE INTERFACE OF CHRISTIANITY AND COMMUNICATION ARTS**

4 hours. Offered 1976-77 and alternate years. Assessment of the impact of various modes of communication on contemporary Christianity. Historical perspective of communication formats used by the church. Prerequisite: CA 200 or permission of instructor.

**CA 490 RITE OF PASSAGE: SENIOR SEMINAR**

4 hours total, 2 hours each term for two terms. Devoted to the integration of knowledge and attitudes acquired during the course of study in communication arts. Special attention given to student projects and research topics with interdisciplinary implications. Prerequisite: Senior standing and permission of instructor.

**CA 495 INDIVIDUAL RESEARCH OR FIELD WORK**

1-12 hours may be earned at the discretion of the department and chairman of the division. Students must have permission to register for the course. Must be taken on pass-no pass basis.

**LANGUAGES: GREEK**

**Gr 101, 102, 103 FIRST-YEAR NEW TESTAMENT GREEK**

4 hours each term. Offered 1976-77 and alternate years. A beginner's course in the Greek of the New Testament, including vocabulary, grammar, declensions, conjugations, and special constructions. The First Epistle of John and various other selections from the New Testament are read.

**Gr 201, 202, 203 SECOND-YEAR NEW TESTAMENT GREEK**

4 hours each term. Offered 1977-78 and alternate years. Review of the Greek grammar and advanced studies. Selections from the Greek New Testament are read, with attention to grammar and exegesis.

Identical with B 201, 202, 203. Prerequisite: Gr 101, 102, 103 First-year New Testament Greek.

**Gr 301, 302, 303 NEW TESTAMENT GREEK**

4 hours each term. Identical with Gr 201, 202, 203, but upper division.

## **LANGUAGES: SPANISH**

**Spn 101, 102, 103 FIRST-YEAR SPANISH**

4 hours each term. Offered 1976-77 and alternate years. Elementary practice in listening, speaking, reading, and writing Spanish. A study of the elements of grammar. Regular laboratory practice.

**Spn 201, 202, 203 INTERMEDIATE SPANISH**

4 hours each term. Offered 1977-78 and alternate years. An extension of listening, speaking, and writing with review of grammar. Reading of short stories and essays with reports and individual projects. Regular laboratory practice.

**Spn 295 INDIVIDUAL RESEARCH OR FIELD WORK**

1-6 hours may be earned for work taken in a Spanish-speaking institution of higher learning. Courses taken must be in conversation and grammar and must be approved in advance by the language instructor and the chairman of the division.

## **LITERATURE (B.A. Degree)**

### **Major Requirements**

To complete the minimum of 54 hours the student should select courses that give him a balanced historical and generic appreciation of the development of English literature. In addition to his literature courses, it is recommended that the student investigate such supportive courses as Hst 331, 332 England; Hst 460 Twentieth Century United States; Phl 210 Introduction to Philosophy. These provide an ideological matrix for literary studies.

**Core Courses:** The following courses are required of all literature majors: Lit 201, 202 English Literature; Ling 300 General and Cultural Linguistics; Wr 310



Polished Prose or Wr 315 Creative Writing; Lit 381 Shakespeare; Lit 320 English Augustan and Romantic Writers; Lit 473 20th Century Novel or Lit 474 20th Century Poetry; Lit 344 Literary Criticism; Lit 491, 492, 493 Senior Thesis.

**Lit 201, 202 THIS SCEPTERED ISLE: THE ENGLISH LITERARY HERITAGE**

4 hours each term. Offered 1977-78 and alternate years. A historic survey of the literature of "Merrie Englande," from Anglo-Saxon to modern times. Themes, movements, and genres will be discussed as they form the rich tapestry of the literature of our native tongue.

**Lit 230/330 THE EYE OF THE POET: MAJOR THEMES IN POETRY**

4 hours. Offered 1977-78 and alternate years. Major themes and concerns of poetry from earliest times to the present day, including an introduction to the elements of poetry designed to provide the needed tools and skills for the enjoyment and understanding of poetic texts.

**Lit 251, 252 THE HUMAN CONDITION: MASTERPIECES OF WORLD LITERATURE**

4 hours each term. Offered 1976-77 and alternate years. A survey of selected Western and non-Western literature from the classical to modern periods stressing those themes and forms that exemplify the ideals and concerns of our shared human condition.

**Lit 254 THE PLAY'S THE THING: AN INTRODUCTION TO DRAMA**

4 hours. Offered 1977-78 and alternate years. The nature and history of drama with analysis of major dramatic works from the classical period to the present.

**Lit 285/485 PEARLS OF PRICE: SELECTED LITERARY TOPICS**

4 hours. A course offered occasionally by the staff as an avenue whereby professors and students may investigate interesting literary byways as desired. Such courses have included studies in science-fiction,

C. S. Lewis, satire, the detective novel, biography, ethical problems in literature.

**Ling 300 THE FORME OF SPECHE IS CHAUNGE: GENERAL AND CULTURAL LINGUISTICS**

4 hours. Offered 1977-78 and alternate years. A course combining study of the history of the English language and modern linguistic theories. The International Phonetic Alphabet will be studied, and historical backgrounds will form a cultural matrix for the course.

**Lit 311, 312 ON NATIVE SOIL: THE AMERICAN LITERARY HERITAGE**

4 hours each term. Offered 1976-77 and alternate years. A course survey of American literature stressing those themes and forms that represent the development of American thought and literary achievement.

**Lit 320 THE EXUBERANCE AND THE AGONY: ENGLISH AUGUSTAN AND ROMANTIC WRITERS**

4 hours. Offered 1977-78 and alternate years. A course examining premises of taste in English literature from 1660-1832, concentrating on the major Augustan writers and writers of the Romantic movement.

**Lit 324 NOW YOU SEE IT: CONTEMPORARY DRAMA**

4 hours. Offered 1976-77 and alternate years. A study of selected European and American drama since World War II.

**Lit 344 WHERE SENSE AND SENSITIVITY MEET: LITERARY CRITICISM**

4 hours. Offered 1976-77 and alternate years. An exploration of the theoretical and practical aspects of literary criticism. Theoretical works from Aristotle to the present day form a historical matrix upon which practical studies of specific works will be built.

**Lit 381 THE MIRROR UP TO NATURE: SHAKESPEARE AND HIS CONTEMPORARIES**

4 hours. Offered 1977-78 and alternate years. A study of Shakespeare's major plays and selected plays of other Elizabethan and Jacobean playwrights.

**Lit 444 LITERATURE FOR ADOLESCENTS**

4 hours. Offered 1976-77 and alternate years. A study of the literature taught in junior and senior high schools.

**Lit 460 FORM AND CHARACTER: THE DEVELOPMENT OF THE ENGLISH NOVEL**

4 hours. Offered 1977-78 and alternate years. A generic and historical study of the development of the English novel from the Eighteenth Century.

**Lit 473 ECHOES IN THE VOID: THE TWENTIETH CENTURY NOVEL**

4 hours. Offered 1977-78 and alternate years. An examination of the main trends in Twentieth Century novel writing. The course includes an introduction to selected European, English, and American novelists as they relate through common themes.

**Lit 474 ANGUISH AND AFFIRMATION: TWENTIETH CENTURY POETRY**

4 hours. Offered 1977-78 and alternate years. An examination of British and American poetry from the turn of the century to the present. Some consideration in translation of significant non-English writers of this period.

**Lit 491, 492, 493 SENIOR THESIS**

1 hour each term. Required of majors in literature.

**Lit 495 INDIVIDUAL RESEARCH AND FIELD WORK**

1-12 hours may be earned at the discretion of the department and the division chairman. Students must have permission to register for the course.

## **WRITING**

**Wr 95 WRITING RIGHT: ENGLISH SKILLS**

No credit. Offered fall term. Four classes weekly devoted respectively to reading, spelling, composition, and research skills. Entrance is by professional recommendation or examination results. The class is designed to enrich a student's basic writing skills.

**Wr 111 WRITING AS THINKING: THE EFFECTIVE WRITER**

4 hours credit. A course concentrating on expository writing, with an introduction to basic research methods. Technical and argumentative writing are also introduced in the course.

**Wr 310 POLISHED PROSE: COMPOSITION FOR TEACHERS**

4 hours. Offered 1976-77 and alternate years. A course designed to assist the aspiring student teacher to polish his own skill in composition and acquire helpful techniques that will assist him in teaching the craft of writing.

**Wr 350 THE MIND'S EYE: CREATIVE WRITING**

4 hours. Offered 1977-78 and alternate years. A workshop approach to the writing of imaginative literature including poetry, fiction, and drama. Students will write and prepare for publication original works in two or more areas. Prerequisite: English 111 or instructor's permission.



# Division of Natural Science

Basic objectives of the division are:

1. To provide appropriate training and background for employment and professional careers in science and related areas.
2. To provide a basis for continued studies in environmental science, medicine, dentistry, medical technology, and science education.
3. To build scientific literacy as a part of a liberal education.
4. To provide a background for studies in business, social areas, educational fields, and related subjects.

## Majors Offered

The division offers subject majors in biology, chemistry, environmental science, home economics, and mathematics. It offers secondary teaching majors and minors in biology, integrated science, and mathematics (see the Education Division for description of the teaching programs).

In addition to the majors listed in the chapter, "The Academic Program," the Division of Natural Science offers a joint degree Medical Technology program with Good Samaritan Hospital in Portland.

## Interdisciplinary Majors

A number of interdisciplinary options, such as science and business, are encouraged by this division. A student may propose his own option or counsel with the members of the division.

## BIOLOGY (B.S. Degree)

### Major Requirements

Fifty-one term hours in biology are required including Bi 101, 102, 103 General Biology and at least 39 hours of upper division biology courses to include Bi 311, 312 Plant Morphology and Bi 491, 492, 493 Senior Seminar. In the general education program,

twelve hours of Ch 111, 112, 113 General Chemistry are required to meet cultural legacy, and eight hours of Ch 231, 232 Organic Chemistry and four hours of Ch 210 Quantitative Analysis are required to fulfill symbolics. In addition, four hours of Mth 195A are required. Each biology major is required to prepare a research paper during his senior year, which must report independent research.

#### Bi 101, 102, 103 GENERAL BIOLOGY

4 hours each term. An introduction to the science of living things. Includes human anatomy and physiology, a study of the anatomy and physiology of higher plants, an introduction to the study of heredity, and a brief survey of the plant and animal kingdoms. Three lectures and one laboratory period per week.

#### Bi 300 DEVELOPMENTAL BIOLOGY

4 hours. Offered 1976-77 and alternate years. Cell and tissue differentiation studies as they apply to growth and development; physiological and molecular emphasis. Three lectures and one two-hour laboratory per week.

#### Bi 310 VERTEBRATE EMBRYOLOGY

4 hours. Offered 1977-78 and alternate years. A study of cleavage, organogeny, and general development of typical vertebrates. Two lectures and two laboratory periods per week. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 311, 312 PLANT MORPHOLOGY

5 hours each term. A survey of the plant kingdom emphasizing form, reproduction, development, and classification. Four lectures and one laboratory period per week.

#### Bi 320 HUMAN ANATOMY

5 hours. Offered 1976-77 and alternate years. A study in detail of the major systems of the human body. Three lectures and two laboratory periods per week. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 321, 322 COMPARATIVE VERTEBRATE ANATOMY

4 hours each term. Offered 1976-77 and alternate years. A comparative study of the members of the

phylum Chordata. Two lectures and two laboratory periods per week. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 330 PHYSIOLOGY

4 hours. Functions of the human body, stressing tissues, organs, and organ systems. Two lectures and two laboratory periods each week. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 340 PLANT PHYSIOLOGY

5 hours. Offered 1976-77 and alternate years. A study of plant function from the level of the organelle to that of the organ. Photosynthesis, respiration, water relations, growth and development, mineral nutrition, and other topics will be covered. Four lectures and one laboratory period per week. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 350 GENETICS

3 hours. Offered 1977-78 and alternate years. A study of the basic principles of inheritance. Suggested as a valuable elective for students in psychology, sociology, theology, or education. Three lectures per week. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 350L GENETICS LABORATORY

1 hour. Offered 1977-78 and alternate years. Optional in combination with Bi 350 Genetics.

#### Bi 360 ECOLOGY

4 hours. Offered 1977-78 and alternate years. A study of the relationship of living organisms to their environment. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 370 GENERAL MICROBIOLOGY

5 hours. Offered 1977-78 and alternate years. A course in the structure, metabolism, classification, health aspects, and commercial applications of microorganisms. Methods of microbiological investigation are emphasized. Three lectures and two laboratory periods per week.

#### Bi 380 ORNITHOLOGY

4 hours. Offered 1976-77 and alternate years. A study of bird structure, adaptations, migrations, identification, habits, and economic importance. Designed for students with a hobby interest in birds and for biology majors. Two lectures per week with laboratory and extensive field work. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 430 EVOLUTION

3 hours. Offered 1977-78 and alternate years. A study of the theory of organic evolution as it relates to the taxonomic units of living organisms and a survey of the various schools of thought in the interpretation of evolution.

#### Bi 460 SYSTEMATIC BOTANY

4 hours. Offered 1977-78 and alternate years. Collection, identification, and classification with emphasis on the Angiosperms. Topics in experimental taxonomy, literature of taxonomy, systems and history of classification, and evolution of the Angiosperms are considered. Two lectures and two laboratory sessions per week and field work.

#### Bi 461 SYSTEMATIC BOTANY FIELD STUDY

2 hours. Offered 1977-78 and alternate years. Concurrent with Bi 460. Involves field and laboratory work in plant identification. Prerequisite: Consent of instructor.

#### Bi 485 SELECTED TOPICS

3-4 hours. A variety of topics may be offered reflecting special interests of faculty, visiting professors, or recent developments in biology. Prerequisite: Bi 101, 102, 103 General Biology.

#### Bi 491, 492, 493 SENIOR SEMINAR

1 hour each term. Three hours are required of biology majors.

#### Bi 495 SPECIAL STUDY

1-4 hours. Specific instructional programs, laboratory research, or independent study as planned under advisement of the department for upper division stu-

dents. A total of not more than six hours may be applied toward major.

## CHEMISTRY (B.S. Degree)

### Major Requirements

Fifty-one hours in chemistry to include Ch 111, 112, 113 General Chemistry; Ch 231, 232 Organic Chemistry; Ch 210 Quantitative Analysis, and Ch 401-407 Physical Chemistry. In the general education program, twelve hours of Ph 201, 202, 203 General Physics are required to meet cultural legacy. Mathematics through Mth 123 Calculus is required, twelve hours of which will meet the symbolics requirement.

#### GSc 103 FOUNDATIONS OF CHEMISTRY

4 hours. (See General Science 103)

#### Ch 111, 112, 113 GENERAL CHEMISTRY

4 hours each term. This course covers fundamental chemical principles, reactions, and modern theories. Special emphasis is given to the role of chemistry in environment, industry, and related sciences. A two-track format is employed. Track I is designed to meet the needs of chemistry and other science majors. Track II is designed especially for liberal arts emphasis. Programmed techniques are used to individualize instruction. Two class periods and two laboratory periods each week. Prerequisite: High school chemistry or approval of instructor.

#### Ch 210 QUANTITATIVE ANALYSIS

4 hours. Emphasizes the skills and techniques of chemical measurements. Includes classical gravimetric and volumetric procedures and an introduction to spectrophotometric and chromatographic procedures. Theoretical basis of each procedure is considered. A service course for premedical, pre dental, and medical technology students. Two lectures and two three-hour laboratory periods per week. Prerequisite: Ch 113 General Chemistry.

#### Ch 231, 232 ORGANIC CHEMISTRY

4 hours each term. A study of principles, structure, bonding, reactions, and energy as related to carbon

chemistry. The laboratory stresses materials, equipment, and skills that are involved in synthesis, purification, and identification of representative groups of organic compounds. Three lectures and one three-hour laboratory period per week. Prerequisite: Ch 113 General Chemistry.

#### Ch 310 INSTRUMENTAL ANALYSIS

4 hours. Offered 1977-78 and alternate years. Methods and theories of chemical analysis with emphasis on current applications and instrumentation. Two lectures and two three-hour laboratory periods per week. Prerequisite: Ch 210 Quantitative Analysis.

#### Ch 340 BIOCHEMISTRY

4 hours. Offered 1977-78 and alternate years. An introduction to the chemistry of substances involved in life processes. The structures, reactions, and energy transformations of these compounds are considered. Laboratory involves a study of properties, purification, and identification of bio-organic compounds. Three lectures and one three-hour laboratory period per week. Prerequisite: Ch 232 Organic Chemistry.

#### Ch 350 BASIC ELECTRONICS AND CIRCUITS

4 hours. Offered 1977-78 and alternate years. Identical with Ph 350.

#### Ch 401, 402, 403 PHYSICAL CHEMISTRY

3 hours each term. Offered 1976-77 and alternate years. An introduction to modern theoretical chemistry emphasizing thermodynamics, kinetics, and molecular structure. Two lectures and one recitation period per week. Prerequisite: Mth 123 Calculus and Ph 203 General Physics.

#### Ch 405, 406, 407 PHYSICAL CHEMISTRY LABORATORY

1 hour each term. Optional in combination with Ch 401, 402, 403 Physical Chemistry. One three-hour laboratory per week.

#### Ch 475 FIELD EXPERIENCE

1-5 hours. Supervised experience with an off-campus industry or agency using applied chemistry. Prerequisite: Consent of advisor.

### **Ch 485 SELECTED TOPICS**

1-4 hours. A regular class scheduled to fit the interest of students, faculty, or visiting professors. Various topics such as glass blowing, qualitative organic chemistry, advanced inorganic chemistry, recent developments in chemistry are offered. Prerequisite: Ch 111, 112, 113 General Chemistry.

### **Ch 495 SPECIAL STUDY**

1-3 hours. Specific instructional programs, laboratory research, or independent study as planned under advisement of the department for upper division students. A total of not more than six hours may be taken.

## **GENERAL SCIENCE**

### **GSc 101 FOUNDATIONS OF EARTH SCIENCE**

4 hours. The basic concepts, language, and methodology of geology, meteorology, astronomy, and oceanography are considered with laboratory experience drawn from local phenomena. Three lectures and one laboratory period per week.

### **GSc 102 FOUNDATIONS OF PHYSICS**

4 hours. A survey of some basic topics related to the field of physics such as motion, energy, sound, electricity, relativity. Emphasis on vocabulary and broad principles. Extensive mathematics background not required. Three lectures and one laboratory period per week.

### **GSc 103 FOUNDATIONS OF CHEMISTRY**

4 hours. Emphasis on topics related to the field of chemistry. Survey of modern theory and applications. Recommended for students with no previous training in chemistry or whose college aptitude scores indicate a need for introduction to chemistry prior to taking Ch 111 General Chemistry.

### **GSc 310 EARTH ENVIRONMENT**

3 hours. Offered 1976-77 and alternate years. A study of soil, rocks, mineral resources, and geologic changes of past and present as related to the conservation and preservation of the earth as the habita-

tion of man. Two lectures and one laboratory per week. Prerequisite: One year of college science.

### **GSc 320 AIR AND WATER ENVIRONMENT**

3 hours. Offered 1976-77 and alternate years. A study of processes that occur to produce weather, the hydrological cycle, and clean air and water. Charting local weather phenomena and analysis of water will be done as part of laboratory experience. Two lectures and one laboratory per week. Prerequisite: One year of college science.

### **GSc 330 ESSENTIALS OF ASTRONOMY**

3 hours. Offered 1976-77 and alternate years. A study of the solar system, constellations, stars, stellar system, and deep space phenomena as well as cosmology. Three lectures per week with periodic night laboratories. Prerequisite: One year of college science.

### **GSc 370 ENVIRONMENTAL SCIENCE**

3 hours. Offered 1976-77 and alternate years. A study of the effect of environment on man and man on the environment from physical, biological, and social view of human population and technology. Prerequisite: One year of college science. Identical with HE 370.

### **GSc 420 CREATION**

3 hours. Offered 1977-78 and alternate years. An examination of scientific, archeological, and historical evidences related to origins and earth history from which a comparison of creation and evolutionary models is made. Prerequisite: GSc 101, 102, 103 or equivalent.

### **GSc 475 GEOLOGY FIELD TRIP**

Offered on demand.

### **GSc 495 SELECTED TOPICS**

3 hours. A variety of topics may be offered, for example: history of science, philosophy of science, effects of technology, etc. Prerequisite: Upper division standing.

## **HOME ECONOMICS (B.S. Degree)**

### **Major Requirements**

A minimum of 56 term hours in home economics courses is required and must include HEc 111, 112 Foods; HEc 121, 122 Clothing Construction; HEc 200/300 Nutrition; HEc 230 Textiles; HEc 260 Clothing Selection; HEc 270 Flat Pattern and Draping; HEc 290 Meal Planning; HEc 350 Home Decoration; HEc 360 Consumer Buying; HEc 380 Construction with Special Fabrics; HEc 320 Tailoring; and HEc 430 Home Management House. A science course, preferably chemistry, is also required, which fulfills the general education requirements for symbolics and tools basic to a B.S. major. In addition, the following electives are recommended: HEc 310 Human Growth and Development and HEc 340 Marriage and the Family.

### **Interdisciplinary Majors**

Home Economics has two defined interdisciplinary majors:

1. Thirty-six hours in either clothing or foods, plus eighteen hours in business and eighteen hours in economics.

2. Thirty-six hours in general home economics, plus eighteen hours in social services and nine hours each in psychology and business.

#### **HEc 111, 112 FOODS**

4 hours each term. A study of securing and maintaining a good state of nutrition, the preparation and use of common foods, planning and serving meals, marketing, preservation of foods. Two lectures and two laboratory periods per week.

#### **HEc 121, 122 CLOTHING CONSTRUCTION**

4 hours each term. The development of a wholesome attitude toward clothing construction; of ability to construct clothing quickly, accurately, and with perfect fit; of ability to recognize fitting problems and how to correct them.

#### **HEc 200/300 NUTRITION**

4 hours. The relation of food to proper nutrition and the factors that influence its nutritive value. Identical with HE 300.

#### **HEc 230 TEXTILES**

4 hours. Offered 1977-78 and alternate years. The study of textiles, their relation to the work of the household, and clothing problems.

#### **HEc 240 HOME MANAGEMENT AND EQUIPMENT**

4 hours. Offered 1977-78 and alternate years. The study of social and economic problems found in the home, such as housing, house management, household production, and the adequacy and use of personal and family income. Includes a unit on use and care of household equipment.

#### **HEc 260 CLOTHING SELECTION**

4 hours. Offered 1977-78 and alternate years. Artistic and economic factors in the selection of clothing for the individual and the family.

#### **HEc 270 FLAT PATTERN AND DRAPING**

4 hours. Offered 1977-78 and alternate years. Pattern alteration, fitting, and clothing construction with advanced techniques. Special problems in silk and wool. A matching project required. Prerequisites: HEc 260 Clothing Selection, HEc 121, 122 Clothing Construction.

#### **HEc 290 MEAL PLANNING**

4 hours. Offered 1976-77 and alternate years. Includes purchasing, menu making, and meal management. Emphasis on food preparation, and time and money management.

#### **HEc 310 HUMAN DEVELOPMENT**

5 hours. Identical with Psy 310 Human Development.

#### **HEc 320 TAILORING**

4 hours. Offered 1976-77 and alternate years. Emphasis on tailoring dresses, suits, and coats. Prerequisite: HEc 121, 122 Clothing Construction.

#### **HEc 340 MARRIAGE AND THE FAMILY**

3 hours. Offered 1976-77 and alternate years. Identical with Soc 340.

#### **HEc 350 HOME DECORATION**

4 hours. Offered 1977-78 and alternate years. Principles of planning, furnishing, and decorating a home. A study in line and design including historical furniture.

#### **HEc 360 CONSUMER BUYING**

3 hours. Offered 1976-77 and alternate years. Problems of the consumer, state and federal laws relating to the consumer, and how to be a wise consumer.

#### **HEc 380 CONSTRUCTION WITH SPECIAL FABRICS**

4 hours. Offered 1976-77 and alternate years. Learning techniques that are unique to knit fabrics and garments that lend themselves particularly to knit fabrics.

#### **HEc 430 HOME MANAGEMENT HOUSE**

4 hours. Offered 1976-77 and alternate years. Principles underlying management of a home are put into practice during residence in the Home Management House or in a field experience. Some class work giving study of social and economic problems found in the home. Includes a unit on use and care of household equipment.

#### **HEc 475 FIELD EXPERIENCE**

1-4 hours. Supervised experience with an off-campus industry, business, or institution. Prerequisite: Upper division standing and consent of advisor.

#### **HEc 495 SPECIAL STUDY**

1-4 hours. Special research by permission of instructor.

## **MATHEMATICS (B.S. Degree)**

### **Major Requirements**

For a mathematics major a student must complete a minimum of 32 approved hours in mathematics beyond Math 123 Calculus. Of these, 26 must be upper division, including Mth 321 and Mth 421. In



addition, a student must complete Ph 101, 102, 103 General Physics to fulfill the general education requirement in symbolics.

#### GE 100 CRITICAL THINKING AND DECISION MAKING

4 hours fall term. A study of critical and creative thinking, including the role of decision making in society and everyday life, ways to reaching valid conclusions, fallacies in thinking, and basic procedures in problem solving and decision making. Examples will be taken from such areas as personal decisions, news media, and mathematics.

#### Mth 95/195 INDIVIDUALIZED MATHEMATICS

1-4 hours each term. Individually designed mathematical training to meet the needs and goals of an individual student. The student should consult with the mathematics department for proper placement prior to enrolling. Topics, include 95A Basic Math, 95B Beginning Algebra, 95C Intermediate Algebra, 195A College Algebra, 195B Trigonometry, 195C Analytic Geometry. Mth 95 does not apply for college credit.

#### Mth 110 MATHEMATICAL TOOLS FOR PROBLEM SOLVING

4 hours winter term. A study of some mathematical techniques and tools for solving selected problems from areas such as social science, business, and natural science. Designed as a sequel to GE 100. Prerequisite: One year of high school algebra or consent of instructor.

#### Mth 111, 112, 113 MATHEMATICS FOR ELEMENTARY TEACHERS

3 hours each term. A study of the structures of arithmetic. Includes number bases, group and set theory, module systems, mathematical proof, and functions. Does not apply toward a mathematics major.

#### Mth 121, 122, 123 CALCULUS

4 hours each term. A study of differential and integral calculus. Open to freshmen with a sufficient high school mathematics background and satisfactory

scores on a placement test, or successful completion of Mth 195.

#### Mth 210 BASIC PROGRAMMING

3 hours. An introduction to computers, coding, and programing by use of BASIC as a computer language.

#### Mth 220 FORTRAN PROGRAMMING

3 hours. Coding and programing data in the FORTRAN computer language as applied to the solution of scientific and engineering problems.

#### Mth 230 COBOL PROGRAMMING

3 hours. Coding and programing data in the COBOL computer language as applied to data processing of business information.

#### Mth 240 STATISTICAL PROCEDURES

4 hours. Identical with Psy 340.

#### Mth 310 DIFFERENTIAL EQUATIONS

4 hours. A study of the theory, methods of solution, and applications of ordinary differential equations. This includes series solution and Laplace transforms. Prerequisite: Mth 123 Calculus.

#### Mth 321, 322, 323 MODERN ALGEBRA

3 hours each term. Offered 1977-78 and alternate years. A study of groups, fields, rings, integral domains, vector spaces, matrices, polynomials, determinants, and algebraic number systems. Prerequisite: Mth 123 Calculus.

#### Mth 331, 332 PROBABILITY AND STATISTICS

3 hours each term. Offered 1976-77 and alternate years. A study of sample spaces, combinatorial methods, discrete and continuous distributions, sampling, estimating parameters, and testing hypotheses. Prerequisite: Mth 123 Calculus.

#### Mth 400 NUMERICAL ANALYSIS

3 hours. Offered 1976-77 and alternate years. A study of solution of equations, polynomial approximations, and differential equations.

### Mth 411, 412 MODERN GEOMETRY

3 hours each term. Offered 1977-78 and alternate years. A study of advanced Euclidian, projective, and non-Euclidian geometry. Elements of topology. Prerequisite: Mth 123 Calculus.

### Mth 421, 422 ADVANCED CALCULUS

5 hours each term. Offered 1976-77 and alternate years. A rigorous treatment of topics introduced in lower division calculus with a study of more advanced topics basic to the study of real and complex variables. Prerequisite: Mth 123 Calculus.

### Mth 423 COMPLEX VARIABLES

3 hours. Offered 1976-77 and alternate years. A study of the calculus of complex variables to include Cauchy's Theorem, residues, and contour integration. Prerequisite: Mth 421, 422 Advanced Calculus.

### Mth 485 SELECTED TOPICS

3 hours. A variety of topics may be offered reflecting special interests of faculty or visiting professors. Prerequisite: Upper division standing in mathematics.

### Mth 495 SPECIAL STUDY

1-3 hours. Instructional programs organized to meet specified objectives of upper division students. A total of not more than six hours may be taken.

## PHYSICS

### Ph 201, 202, 203 GENERAL PHYSICS

4 hours each term. Key concepts of physics as related to modern living. Examples, problems, and laboratory are drawn from practical situations where mechanics, energy crisis, electricity, magnetism, electronic devices, light, sound, etc. are involved. Three lectures and one laboratory weekly.

### Ph 350 BASIC ELECTRONICS AND CIRCUITS

4 hours. Offered 1977-78 and alternate years. Electrical principles of elementary circuitry that are involved in instrumentation to include power supplies, recorders, oscillators, amplifiers, etc. Application to physical, chemical, and biological research equipment

is emphasized. Three lectures and one laboratory period per week. Prerequisite: Ph 203 General Physics or GSc 102 Foundations of Physics.

### Ph 485 SELECTED TOPICS

3-4 hours. Classes organized to meet specific interest of students and to utilize guest lecturers as available.

### Ph 495 SPECIAL STUDY

1-4 hours. Instructional programs to meet specific objectives of individual students as approved by the division chairman.



# Division of Religion

Basic objectives of the division are:

1. To give every student opportunity for systematic Bible study and Christian interpretation through required and elective courses.
2. To provide preprofessional studies basic to pastoral, evangelistic, educational, and missionary ministry of the Christian faith.
3. To provide a fund of biblical knowledge and consistent teaching methodology for those who plan to serve as Christian education directors, Sunday school teachers, youth or adult leaders, and social workers.
4. To enable students through a study of philosophy to participate in formal thinking about problems of nature, knowledge, and value with the aim of increasing awareness of the force of ideas in the world.

## RELIGION (B.A. Degree)

### Major Requirements

A major in religion requires the completion of 60 hours elected from the four fields of courses offered in the division, plus Communication Arts, distributed as follows: a minimum of twelve hours in Bible, eight hours in Christian ministries, twelve hours in religion, and eight hours in philosophy. A minimum of 24 hours shall be from upper division courses. All religion majors are required to include CM 110 Essentials of Christian Education, R 380 Basic Christian Beliefs (or R 403 Christianity in the Modern World), one course in communication arts, four or five hours, and to complete the requirements for a Bachelor of Arts degree.

## CHRISTIAN MINISTRIES (B.A. Degree)

### Major Requirements

This major specifies the following: Bible—eighteen hours beyond general education requirement; Christian ministries—eighteen hours, which may include R 380; philosophy—eight hours; internship—twelve hours of CM 275/475 (to be defined by chairman); and communication arts—four hours selected from CA 110, 111, or 221.

### Interdisciplinary Majors

An interdisciplinary major may be elected from the fields of religion and music or religion and physical education. A minimum of 72 term hours is required for the major and must be distributed as follows: a minimum of 36 hours in religion; an additional eighteen hours in either music or physical education, and nine hours in two of the following fields: art, education, psychology, science, communication arts, drama, sociology, business, Spanish, political science, and music (for religion and physical education majors) or physical education (for religion and music majors). A student may elect one eighteen-hour block rather than two nine-hour blocks.

Students electing the interdisciplinary major in religion and music or religion and physical education will consult with advisors in the Division of Religion for specific courses recommended in each of the four fields in religion. One course in communication arts, four or five hours, must be elected and may be counted within the 36 hour major requirement. Those electing an interdisciplinary major in religion and music or religion and physical education will complete the requirements for a Bachelor of Arts degree. For the specific requirements in music or physical education, see the appropriate section of the catalog.

### BIBLE

#### GE 101, 102, 103 LITERATURE OF THE BIBLE

3 hours each term. A survey of the Bible using selected books and portions. The major religious themes and their literary forms will be studied in his-



toric context with attention given to the tools for biblical study useful in handling the problems of authorship, text, and interpretation.

B 201, 202, 203 SECOND-YEAR NEW TESTAMENT GREEK

4 hours each term. Offered 1977-78 and alternate years. Identical with Gr 201, 202, 203.

B 240 OLD TESTAMENT POETRY

3 hours. A study of the poetical books: Job, Psalms, Proverbs, Ecclesiastes, and the Song of Solomon. Emphasis will be placed on the great themes of these books as well as upon the forms of poetry, drama, and wisdom literature. Reference will be made to the Apocrypha.

B 260 THE SYNOPTIC GOSPELS

3 hours. A study of the life and teaching of Jesus Christ as given in the accounts of Matthew, Mark, and Luke.

B 270 THE WRITINGS OF JOHN

3 hours. A study of the meaning of belief in Jesus Christ, the Son of God, as depicted in Johannine literature: the Gospel, letters, and Apocalypse.

B 301, 302, 303 SECOND-YEAR NEW TESTAMENT GREEK

4 hours each term. Identical with B 201, 202, 203 and Gr 201, 202, 203, but upper division.

B 311, 312 OLD TESTAMENT HISTORY AND ARCHEOLOGY\*

4 hours each term. Offered 1977-78 and alternate years. A study of the text of the historical books of the Old Testament, along with an examination of archaeological findings related to the biblical places and events. B 311 includes Genesis through Joshua; B 312 includes Judges through Esther. B 311 is not prerequisite to B 312.

\*Courses marked with asterisks will satisfy general education religion requirements.

B 330 OLD TESTAMENT PROPHETS\*

4 hours. Offered 1977-78 and alternate years. A study of historical backgrounds, literature, and spiritual themes of the books of the Hebrew prophets, Isaiah to Malachi.

B 340 OLD TESTAMENT POETRY\*

3 hours. Identical with B 240 for upper division students.

B 360 THE SYNOPTIC GOSPELS\*

3 hours. Identical with B 260 for upper division students.

B 370 THE WRITINGS OF JOHN\*

3 hours. Identical with B 270 for upper division students.

B 400 THE ACTS\*

4 hours. Offered 1976-77 and alternate years. A study of the New Testament church as shown in The Acts.

B 410 PAUL'S EPISTLES\*

4 hours. Offered 1976-77 and alternate years. A study of the New Testament church as reflected in the writings of Paul. The Epistles and their doctrines will be related to the evangelistic activities as reported in The Acts.

B 480 HEBREWS AND THE GENERAL EPISTLES\*

4 hours. Offered 1976-77 and alternate years. A study of the non-Pauline letters of the New Testament.

B 485 SELECTED TOPICS

3-4 hours. Intended for advanced students.

B 495 SPECIAL STUDY

1-4 hours. Intended for advanced students.

## CHRISTIAN MINISTRIES

CM 110 ESSENTIALS OF CHRISTIAN EDUCATION

3 hours. A study of the scope of Christian education to acquaint the student with the overall nature of the educational task of the local church.

tory, with opportunity for observing archeological evidence of their fulfillment.

**R 360 HISTORY AND DOCTRINE OF FRIENDS**

3 hours. A study of the Quaker movement in its historical, social, and religious setting. The distinguishing beliefs of the Friends Church will be studied from the important doctrinal record of its history. Contemporary trends will be examined.

**R 370 HISTORY AND DOCTRINE OF . . . . CHURCH  
(Selected Churches)**

3 hours. Offered on demand. Course description to be supplied and to be taught by denominational leaders.

**R 380 BASIC CHRISTIAN BELIEFS\***

4 hours. Offered 1977-78 and alternate years. A study of the principles of Christianity and their significance for contemporary life.

**R 401 CHRISTIANITY IN THE ANCIENT WORLD\***

4 hours. Offered 1977-78 and alternate years. A study of the emergence of Christianity within the Graeco-Roman world. The course will lead up to A.D. 600.

**R 402 CHRISTIANITY IN THE MEDIEVAL WORLD\***

4 hours. Offered 1977-78 and alternate years. A study of the events and major ideas of the medieval and early modern period up to A.D. 1648. The significant role of Christianity in history will be noted.

**R 403 CHRISTIANITY IN THE MODERN WORLD\***

4 hours. Offered 1977-78 and alternate years. The spread and influence of Christianity from the religious wars to the present time. The impact of Christianity upon culture and of secularism upon the forms of Christianity will be noted.

**R 430 MISSIONS AND OUTREACH**

4 hours. Offered 1976-77 and alternate years. A study of the methods of Christian outreach utilized

by the church both within a given culture and outside that culture in missionary endeavor.

**R 440 COMPARATIVE RELIGIONS\***

4 hours. Offered 1976-77 and alternate years. A comparative study between Christianity and other prominent religions of the world, such as Buddhism, Mohammedanism, and Hinduism. Attention is given also to modern religious cults.

**R 485 SELECTED TOPICS**

3 hours. Topics as announced that represent current faculty interests and competencies. Upper division standing is required for registration.

**R 490 CONTEMPORARY RELIGIOUS THOUGHT**

3 hours. A seminar in which contemporary theologians, philosophers, and religious thinkers are read and discussed.

**R 495 SPECIAL STUDY**

1-5 hours. Individual study in areas of special interest to the student. Permission to register for the course is by application to the chairman of the division and permission of the instructor.

\*Courses marked with an asterisk satisfy general education religion requirements.

# Division of Social Science

Basic objectives of the division are:

1. To enable the student to acquire basic knowledge, understanding, and appreciation of the developments and achievements of past and present cultures.
2. To enable the student to formulate critical standards by which current societal changes may be evaluated in the light of the past and to see the role of the individual in these changes.
3. To help the student to learn about human behavior, values, and experiences for the purpose of understanding, describing, predicting, and directing himself and his environment in such ways that he matures into an effective, integrated, goal-directed Christian citizen.
4. To provide the interested student with backgrounds and skills preliminary to advanced study.
5. To provide competence in the liberal arts preliminary to a career such as teaching, business, social work, missionary service, public administration, and others.
6. To prepare men and women for positions requiring executive responsibility, leadership, and policy-making ability.

## Majors Offered

The division offers subject majors in the following fields: business and economics, history, psychology, psychology-sociology, and social services. It offers a secondary teaching major and minor in social studies (see the Division of Education for description of this program).

## BUSINESS AND ECONOMICS (B.A. or B.S. Degree)

### Major Requirements

Fifty-five hours with a minimum of 30 upper division are required including Bus 101, 102; Bus 120; Eco 201, 202, 203; Bus 301, and six hours in Eco 475 and/or Eco 495. Courses highly recommended for the student who pursues a specialization in economics are Eco 320, 330, 340, 371, 421, 431; and, for the student who pursues specialization in business administration, Bus 320, 330, 410, 420, and Eco 330, 340.

### BUSINESS

#### Bus 101, 102 PRINCIPLES OF ACCOUNTING

4 hours each term. A basic course in accounting theory and practice. First term emphasizes financial accounting aspects while second term emphasizes managerial accounting aspects.

#### Bus 120 QUANTITATIVE BUS-ECON METHODS

4 hours. Develops quantitative tools necessary to the understanding of business and economic theories that are vital to the creation and application of analyzed processes and decision-making operations.

#### Bus 301 BUSINESS LAW

5 hours. Offered 1977-78 and alternate years. A course designed to acquaint the student with the legal aspects of common business transactions. It includes the law of contracts, agency, negotiable instruments, and other phases of private law.

#### Bus 320 PERSONNEL MANAGEMENT

4 hours. Offered 1976-77 and alternate years. Philosophy behind obtaining and maintaining an effective work force. Procedures and theories followed in carrying out a modern personnel program. Emphasis is given to human relations.

#### Bus 330 SMALL BUSINESS MANAGEMENT

4 hours. Management methods uniquely important to small business: planning, financing, marketing,

legal and governmental controls, as well as other special management problems.

#### **Bus 410 FINANCIAL MANAGEMENT**

4 hours. Offered 1976-77 and alternate years. Role and functions of financial manager in modern business firm; environment in which he operates; formulation of financial objectives and policies; financial analysis; forecasting, planning, and control; cash, credit, and asset management; acquisition of funds through short-term and long-term borrowing, leasing, stock issue, and by internal means; dividend policy and other aspects dealing with business owners. (Prerequisite: Bus 101, 102)

#### **Bus 420 PRODUCTION AND OPERATIONS MANAGEMENT**

4 hours. Offered 1977-78 and alternate years. Decision-making methods in the management of production of goods and services. Equipment justification, system analysis, inventory management stimulation, quality control, work methods, facilities selection.

### **ECONOMICS**

#### **Econ 201, 202, 203 PRINCIPLES OF ECONOMICS**

3 hours each term. A study of basic economics as it relates to the individual and to the business community. Includes an introduction to macroeconomic and microeconomic theory and analysis.

#### **Econ 320 LABOR ECONOMICS**

3 hours. Offered 1977-78 and alternate years. A survey of the labor market, unemployment, wage theories, and various types of labor legislation in relation to national income and business cycles. Prerequisite: Econ 201, 202, 203 Principles of Economics.

#### **Econ 330 MANAGEMENT ECONOMICS**

3 hours. Offered 1977-78 and alternate years. The study of economics as a prime factor in the managing of resources and in the making of business decisions. Prerequisite: Econ 201, 202, 203 Principles of Economics.



#### Econ 340 MARKETING

4 hours. Offered 1976-77 and alternate years. An introduction to the basic problems and practices in marketing management. Emphasizes sales and advertising as they relate to marketing to give the student a broad and necessary understanding of marketing problems and functions of the various types of middlemen. Prerequisite: Econ 201, 202, 203.

#### Econ 371 MONEY AND BANKING

3 hours. Offered 1976-77 and alternate years. The functions of money, credit, and banking in the economic system; monetary standards; banking and monetary theory.

#### Econ 421 PUBLIC FINANCE

3 hours. Offered in 1977-78 and alternate years. The economic functions of government, government resources and expenditures, fiscal coordination, public debt, effects of taxes and public expenditures. Fund accounting emphasized.

#### Econ 431 INTERNATIONAL ECONOMICS

3 hours. Offered 1976-77 and alternate years. A study presenting economic problems on an international level and their relationship to government and business. Emphasis is particularly given to the economic progress by countries in various stages of economic development.

#### Econ 475 FIELD EXPERIENCE

1-8 hours. Combines on-the-job experience with classroom instruction in preparing graduates for business careers.

#### Econ 495 SPECIAL STUDY

1-4 hours. Subject matter and credit arranged for the needs of the individual student.

## GEOGRAPHY

#### Geo 200 INTRODUCTORY GEOGRAPHY

4 hours. A study of physical geography with an introduction to cultural and economic geography.

#### Geo 210 WORLD REGIONAL GEOGRAPHY

5 hours. A survey of major regions of the world in their cultural-political-geographic settings. Prerequisite: Geo 200 or consent of instructor.

#### Geo 295 SPECIAL STUDY

1-3 hours. Intensive study of an area or field of geographic investigation consistent with the student's background and interest. Prerequisite: Geo 200 or consent of instructor.

## HISTORY (B.A. Degree)

### Major Requirements

One or two years of foreign language for symbols in general education; Hst 101, 102 Civilizations; Hst 201, 202 United States; 30 upper division hours in history; six hours in political science; and supportive courses in the other social sciences.

#### Hst 101, 102 CIVILIZATIONS

4 hours each term. A study of the contributions of major civilizations from ancient to modern times.

#### Hst 201, 202 UNITED STATES

4 hours each term. A study of historical causes for the successes and failures of the United States from colonial times to the present.

#### Hst 330 PACIFIC NORTHWEST

3 hours. The settlement and history of the Pacific Northwest.

#### Hst 331, 332 ENGLAND

4 hours each term. Offered 1976-77 and alternate years. A history of England, Great Britain, the Empire, and the Commonwealth with emphasis upon constitutional and cultural-social change.

#### Hst 350 LATIN AMERICA

4 hours. Offered 1976-77 and alternate years. Latin American countries from colonial times to the present.

**Hst 360 MODERN RUSSIA**

4 hours. Offered 1976-77 and alternate years. Twentieth-century Russia with emphasis since 1917.

**Hst 370 FAR EAST**

4 hours. Offered 1976-77 and alternate years. Political and cultural developments of the major Far Eastern countries.

**Hst 421, 422 MODERN EUROPE**

4 hours each term. Offered 1977-78 and alternate years. European political, social, economic, and cultural developments from 1648 to the present, with emphasis on the causes of the French and Russian Revolutions.

**Hst 460 TWENTIETH-CENTURY UNITED STATES**

4 hours. Offered 1977-78 and alternate years. A survey of change in the United States since 1898 with emphasis since 1932.

**Hst 485 SELECTED TOPICS**

4 hours. A regular class scheduled to fit the interest of students and faculty. This class will deal with various topics, such as: American economic history, a survey of economic development in America; American constitutional development, the study of the growth of the American Constitution from early time to the present day; American foreign relations, a history of the emergence of American foreign policy since 1776; and American thought and culture, a study of major intellectual and cultural themes since colonial times.

**Hst 490 SENIOR SEMINAR**

3 hours. Historiography and research. Some students will engage in readings and research across the social sciences related to education.

**Hst 495 SPECIAL STUDY**

3-4 hours. Studies in great issues of history and historical interpretations. For history majors.

**POLITICAL SCIENCE**

**PSc 210 AMERICAN GOVERNMENT**

3 hours. Offered 1976-77 and alternate years. The theory and practice of the Federal Government.

**PSc 230 STATE AND LOCAL GOVERNMENT**

4 hours. Offered 1976-77 and alternate years. The origins, nature, and forms of government on the state and local level. Special attention is given to the rising problems of urban government, and regional planning.

**PSc 285 SELECTED TOPICS**

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies.

**PSc 320 CRIMINAL JUSTICE**

4 hours. Offered 1977-78 and alternate years. A study of how criminal law operates, such as in the concept of punishment, role of the police, the role of the attorney, bail, trials, pleas, sentencing, and corrections.

**PSc 340 INTERNATIONAL RELATIONS**

4 hours. Offered 1976-77 and alternate years. Introduction to the principles and study of interstate relations in the contemporary world. Special attention is given to the problem of sovereignty, the United Nations, and international law.

**PSc 360 SOCIAL AND POLITICAL THEORY**

4 hours. Offered 1977-78 and alternate years. Identical with Soc 360, Phl 360.

**PSc 370 PEACE AND WAR**

4 hours. Offered 1977-78 and alternate years. Identical with Soc 370.

**PSYCHOLOGY (B.A. or B.S. Degree)**

**Major Requirements**

A minimum of eight term hours of Psy 201 General Psychology and Psy 202 Personality is required. Certain other prerequisites are necessary for some of the

upper division courses. A student must complete a minimum of 54 term hours in psychology, 30 of which must be upper division. Psy 340 Statistical Procedures is required for both B.S. and B.A. degree programs. Courses taken under the general education requirements are not counted toward the major. Psy 490 Senior Seminar is required.

## **PSYCHOLOGY-SOCIOLOGY (B.A. or B.S. Degree)**

### **Major Requirements**

Psy 201 General Psychology, Psy 202 Personality, Soc 201 Principles of Sociology, and Soc 202 Social Problems are prerequisites to upper division courses. A student must complete the minimum of 27 term hours each in the fields of psychology and sociology, eighteen of which must be upper division courses. Psy 340 Statistical Procedures, Psy 490 Systems and Theories of Psychology, and/or Soc 490 Senior Seminar are required. Courses taken under general education requirements are not counted toward the major.

## **PSYCHOLOGY**

### **Psy 201 GENERAL PSYCHOLOGY**

4 hours. An introductory study of human behavior and experience including theories and methods of psychology, the nature of human development, learning and retention, sensation and perception, thinking, and group processes.

### **Psy 202 PERSONALITY**

4 hours. A treatment of the major theoretical approaches to the study of personality, including motivation and drive, emotion, conflict and frustration, mental health, and therapy.

### **Psy 300 GROUP DYNAMICS**

3 hours. Offered 1977-78 and alternate years. A study of principles and techniques involved in interaction of individuals within various groups. This course is designed to assist students who are prepar-

ing to work with groups in schools, churches, youth organizations, industry, and other types of groups. Prerequisite: Psy 201 General Psychology.

### **Psy 310 HUMAN DEVELOPMENT**

5 hours. A study of the physical, intellectual, social, and moral growth development from the prenatal period through adolescence. Laboratory study and observation of children at home and in school are an important part of this course. There is an emphasis on social influences in development. Identical with CM 310 and HEc 310. Prerequisite: Psy 201 General Psychology.

### **Psy 320 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION**

4 hours. Identical with Ed 320.

### **Psy 340 STATISTICAL PROCEDURES**

4 hours. Statistical procedures for the social and biological sciences. Prerequisite: Psy 201 General Psychology and a good background in mathematics.

### **Psy 350 SOCIAL PSYCHOLOGY**

4 hours. Offered 1977-78 and alternate years. A study of psychological and sociological processes within personal and group behavior, including the role of social mores, social membership, and leadership. Identical with Soc 350. Prerequisite: Psy 201 General Psychology and Soc 201 Principles of Sociology.

### **Psy 400 PSYCHOLOGICAL TESTS AND MEASUREMENTS**

5 hours. Offered 1976-77 and alternate years. A survey of the purposes, techniques, and basic assumptions in measurement of aptitudes, achievements, interests, intelligence, and personality. Some laboratory experiences in the administration, interpretation, and scoring of tests are provided. Prerequisite: Psy 201 General Psychology and Psy 340 Statistical Procedures or permission of instructor.

### **Psy 410 GUIDANCE AND COUNSELING**

5 hours. Offered 1976-77 and alternate years. A study of purposes, principles, and techniques in

guidance and counseling designed to offer assistance to teachers, ministers, social workers, and others who are responsible for individual and group advising. Identical with CM 410. Prerequisite: Psy 201 General Psychology, Psy 202 Personality. Background study of child psychology, adolescent psychology, and personality theories is desirable.

#### **Psy 420 ABNORMAL PSYCHOLOGY**

5 hours. Offered 1977-78 and alternate years. A study of various kinds of nontypical behavior, probable causes, and current concepts of prevention and therapy. Emphasis is placed on normal motives, frustrations, and adjustment mechanisms that may become exaggerated into abnormal behavior. Prerequisite: Psy 201 General Psychology and Psy 202 Personality. Background study of personality theories, motivation, and developmental psychology is desirable.

#### **Psy 430 PERSONALITY THEORIES**

3 hours. Offered 1976-77 and alternate years. Semi-independent study in various outstanding theories of personality, designed to assist those who plan to teach or to enter social work, industrial management, and various kinds of guidance and counseling. Prerequisite: Psy 201 General Psychology, Psy 202 Personality, and consent of instructor. Background in developmental psychology, social psychology, and group dynamics is desirable.

#### **Psy 470 MOTIVATION**

4 hours. Offered 1977-78 and alternate years. A study of tendencies, causes, and sustaining aspects of human behavior. Designed to assist those who plan to teach or to enter social work, industrial management, and various kinds of guidance and counseling. Prerequisite: Psy 201 General Psychology, Psy 202 Personality, and consent of instructor.

#### **Psy 475 FIELD EXPERIENCE**

2-15 hours. Supervised experiences in mental health agencies and institutions. A maximum of twenty hours may be applied toward a psychology major; a



maximum of ten hours in each to apply to psychology-sociology major. Prerequisite: consent of instructor.

#### Psy 485 SELECTED TOPICS

3 hours. A seminar dealing with various topics as announced that represent current faculty interests and competencies. Intended primarily for seniors, but open to juniors upon consent of instructor.

#### Psy 490 SYSTEMS AND THEORIES OF PSYCHOLOGY

3 hours. A seminar in which various schools of psychology, their origins, distinguishing characteristics, major contributions, theoretical positions, and contemporary issues are investigated. Required for psychology majors. Psychology-sociology majors must choose either Psy 490 or Soc 490. Prerequisite: Psy 201 General Psychology, Psy 202 Personality, and twelve upper division hours in psychology.

### SOCIAL SERVICE (B.A. or B.S. Degree)

#### Major Requirements

The Social Service Major requires completion of Soc 201 and Psy 201 as part of the general education requirement. Other lower division requirements include Soc 202, Psy 202, and SS 175/375. An additional 39 hours of upper division Social Service or Sociology courses are required and must include SS 391, SS 392, SS 475 (10 hours minimum), SS 480, and SS 490. In addition, Psy 310 must be completed. A total of 54 hours is required to complete the major, exclusive of general education requirements. Lower division courses are prerequisites for certain upper division courses.

A Social Service major may be considered appropriate beginning education for adult and child welfare positions, juvenile and adult probation and parole positions, a variety of institutional treatment positions, a variety of youth and recreational positions (private, public and church-related), some types of counseling and/or treatment positions, supervisory and administrative positions, and private practice.

SS 175/375 SOCIAL WORK AGENCY OBSERVATION  
2 hours. An introduction to social service agencies. The student visits several agencies during the term to gain firsthand experience with a variety of agency settings and patterns of service or assists a specific agency for a specific period of time to observe some specific activities. Six hours total maximum.

#### Soc 201 PRINCIPLES OF SOCIOLOGY

4 hours. An introduction to the social forces and processes in the evolving life of modern social organization and man's interaction with it.

#### Soc 202 SOCIAL PROBLEMS

4 hours. Introductory studies in current problems of society, such as poverty, race, crime, and family disorders.

#### Soc 301 CULTURAL ANTHROPOLOGY

4 hours. Offered upon sufficient demand. A study of living and recent societies of the world and their ways of life.

#### Soc 326 URBAN PROBLEMS

4 hours. Offered 1977-78 and alternate years. An interdisciplinary introduction to study of urban problems; and a survey of the nature, scope, causes, effects, and alleviation of major social, political, and economic problems in the urban setting; cities of the future and their problems.

#### Soc 332 ETHNIC GROUP PROBLEMS

4 hours. Offered 1977-78 and alternate years. An interdisciplinary study of racial attitudes and their origins and an examination of contemporary racial problems and solutions.

#### Soc 340 MARRIAGE AND THE FAMILY

3 hours. Offered 1977-78 and alternate years. The origins, functions, problems, and possible adjustments in family life. Identical with HE 340 and HEc 340.

#### Soc 350 SOCIAL PSYCHOLOGY

4 hours. Offered 1977-78 and alternate years. Identical with Psy 350.

### **Soc 360 SOCIAL AND POLITICAL THEORY**

4 hours. Offered 1977-78 and alternate years. A critical study of some of the major social philosophers from Comte to the present. Prerequisite: Soc 201 Principles of Sociology or PSc 200 Introduction to Political Science and Phl 210/310 Introduction to Philosophy or permission of the instructor. Identical with Phl 360, PSc 360.

### **Soc 370 PEACE AND WAR**

4 hours. Offered 1977-78 and alternate years. Identical with PSc 370.

### **SS 391 SOCIAL WORK PRINCIPLES AND INSTITUTIONS**

4 hours. An introduction to the history values and principles which underlie the practice of social work and the institution of social welfare; a study of the variety of settings in which social work is practiced and their organization and relationships. Field trips arranged as appropriate.

### **SS 392 SOCIAL WORK METHODS**

4 hours. An overview of methods of practicing social work with individuals, groups, and communities with particular emphasis on expectations, goals, and strategies. Appropriate simulated and actual experiential learning will be used.

### **SS 475 SOCIAL WORK AGENCY EXPERIENCE**

5-15 hours. Supervised experiences in social service agencies and institutions. A minimum total of ten hours required for the social service major. Prerequisite: SS 175/375 and consent of instructor.

### **SS 480 THEORY-PRACTICE INTEGRATION SEMINAR**

2 hours. A required component accompanying the first SS 475 field experience that combines presentations by the faculty instructor, readings, and discussion designed to help the student integrate previous course work and current field experience.

### **SS 285/485 SELECTED TOPICS**

4 hours. A seminar dealing with various topics of special interest to students and current faculty, such

as, Christianity and Social Action, Child Welfare Services, Problems of Aging, and Leisure and Cultural Services.

### **SS 490 SENIOR RESEARCH SEMINAR**

4 hours. A required class for social service majors that includes basic instruction in social research methodology and the completion and presentation of a major research project. To be completed during the senior year. Prerequisite: Instructor's consent.



# Directories

## FACULTY

This register for 1975-76 is composed of all full-time people involved in instruction, certain officers who administer as well as teach, and the librarians. They are classified as professors, associate professors, assistant professors, and instructors, depending upon degree, seniority, tenure, and experience.

DAVID C. LE SHANA, *President*. B.A., Taylor University; M.A., Ball State University; Ph.D., University of Southern California. George Fox College 1967-

RICHARD E. ALLEN, *Assistant Professor of Physical Education*. B.S., Seattle Pacific College; M.S., University of Oregon. George Fox College 1969-

HAROLD A. ANKENY, *Director of Financial Aid and Institutional Research*. B.A., George Fox College. George Fox College 1968-

RALPH K. BEEBE, *Associate Professor of History*. B.A., George Fox College; M.Ed., Linfield College; Ph.D., University of Oregon. George Fox College 1974-

NADINE M. BROOD, *Assistant Professor of Physical Education*. B.S., Linfield College; M.S., University of Oregon. George Fox College 1970-

AUDREY A. BURTON, *Reference Librarian*. B.S., University of Oregon; M.L.S., University of Portland. George Fox College 1974-

HARVEY J. CAMPBELL, *Registrar, Associate Professor of Geography*. B.A., George Fox College; M.A., Colorado State College of Education. George Fox College 1958-

MAURICE G. CHANDLER, *Director of Development*. B.A., George Fox College. George Fox College 1966-

DONALD E. CHITTICK, *Professor of Chemistry, Chairman of the Division of Natural Science*. B.S., Willamette University; Ph.D., Oregon State University. George Fox College 1968-

RONALD S. CRECELIUS, *Director of Religious Services, Assistant Professor of Christian Ministries*. A.B., Th.B., George Fox College; M.R.E., Western Evangelical

cal Seminary; M.A., Pasadena College. George Fox College 1967-

JOHN C. FREEMAN, *Assistant Professor of Business*. B.A., M.A., Western State College of Colorado. George Fox College 1974-

JERRY H. FRIESEN, *Associate Professor of Music*. A.A., Reedley Junior College; B.M.Ed., M.M.Ed., Willamette University; D.M.A., University of Oregon. George Fox College 1966-70; 71-

ROBERT D. GILMORE, *Associate Professor of Education, Director of Instructional Media*. B.A., Azusa Pacific College; B.D., California Baptist Theological Seminary; M.S.Ed., University of Southern California. George Fox College 1964-

MYRON D. GOLDSMITH, *Professor of Religion and Language Arts, Chairman of Division of Religion*. B.A., Friends University; B.D., Asbury Seminary; Ph.D., Boston University. George Fox College 1961-74; 75-

MICHAEL P. GRAVES, *Associate Professor of Communication Arts*. B.A., M.A., California State College at Los Angeles; Ph.D., University of Southern California. George Fox College 1972-

WILLIAM D. GREEN, *Dean of the College, Professor of Religion*. Th.B., Malone College; A.B., Taylor University; M.A., Case Western Reserve University; Ed.D., University of Tennessee. George Fox College 1972-

EUGENE B. HABEKER, *Dean of Students*. B.A., Taylor University; M.A., Ball State University; J.D., Temple University. George Fox College 1974-

DENNIS B. HAGEN, *Professor of Music, Chairman of Division of Fine Arts*. B.A., Whitworth College; M.Mus.Ed., Indiana University; B.D., Western Evangelical Seminary; Ph.D., Indiana University. George Fox College 1964-

THOMAS F. HEAD, *Assistant Professor of Economics*. B.S., M.S., University of Oregon. George Fox College 1971-74; on leave 1974-76

EDWARD F. HIGGINS, *Assistant Professor of English*. B.A., LaVerne College; M.A., California State College at Fullerton. George Fox College 1971-

DANNY M. HOBBS, Assistant Professor of Mathematics. B.A., Olivet Nazarene College; M.S., Purdue University. George Fox College 1970-

JULIA H. HOBBS, Professor of Christian Ministries. B.A., Hope College; M.Ed., University of Pittsburgh; B.D., M.Th., Winona Lake School of Theology; Ph.D., University of Pittsburgh. George Fox College 1975-

DAVID J. HOWARD, Assistant Professor of Music. B.A., Simpson Bible College; B.A., M.A., San Francisco State College. George Fox College 1968-

VIRGINIA M. KING, Assistant Professor of Home Economics. B.S., Olivet Nazarene College; M.S., Eastern Michigan University. George Fox College 1973-

ROBERT E. LAUINGER, Associate Professor of Music. B.S., Portland State University; M.M., Indiana University; D.M.A., University of Arizona. George Fox College 1967-70; 71-

BRUCE G. LONGSTROTH, Assistant Professor of Social Services. B.A., George Fox College; M.S.W., University of Utah. George Fox College 1974-

SHELDON R. LOUTHAN, Professor of Psychology. B.A., Friends University; M.A., Los Angeles State College; Ph.D., University of Oregon. George Fox College 1963-74; 75-

GENETTE McNICHOLS, Head Librarian. B.A., Seattle Pacific College; M.L.S., University of Portland. George Fox College 1956-

DONALD J. MILLAGE, Business Manager, Assistant Professor of Business. B.S., University of Oregon; CPA, Oregon, California, and New York. George Fox College 1972-

LORIN J. MILLER, Assistant Professor of Physical Education, Director of Athletics. B.A., Sterling College; M.S., University of Washington. George Fox College 1970-

HECTOR J. MUNN, Professor of Chemistry, M. Lowell and Margaret W. Edwards Professor of Science. B.S., Seattle Pacific College; M.S., Ph.D., Oregon State University. George Fox College 1958-62; 66-

DAVID V. MYTON, Professor of Education, Director of Teacher Education, Chairman of Division of Edu-

cation. B.R.E., Malone College; B.A., Youngstown University; M.Ed., University of Pittsburgh; Ph.D., Ohio State University. George Fox College 1966-

LEE M. NASH, Professor of History, Chairman of Division of Social Science. A.B., Cascade College; M.A., University of Washington; Ph.D., University of Oregon. George Fox College 1975-

G. DALE ORKNEY, Professor of Biology. B.A., Northwest Nazarene College; M.S., Ph.D., University of Idaho. George Fox College 1963-64; 65-

ARTHUR O. ROBERTS, Professor of Religion and Philosophy, Charles Reppogle Memorial Professor. B.A., George Fox College; B.D., Nazarene Theological Seminary; Ph.D., Boston University. George Fox College 1953-

SAMUEL E. SHERRILL, Associate Professor of English, Chairman of Division of Language Arts. B.A., Seattle Pacific College; M.A., Portland State University; D.A., University of Oregon. George Fox College 1966-71; 72-

PETER C. SNOW, Assistant Professor of Art. B.S., Portland State College; M.A.T., Reed College; M.Ed., Oregon State University. George Fox College 1967-

JAMES W. STANLEY, Assistant Professor of Mathematics and Education. B.A., Malone College; M.T.S., College of William and Mary. George Fox College 1968-

ELVER H. VOTH, Professor of Biology. B.A., Th.B., Cascade College; M.A., Ph.D., Oregon State University. George Fox College 1964-

MARJORIE L. WEESNER, Professor of Physical Education, Director of Physical Education. B.S., George Fox College; M.Ed., Linfield College; Ph.D., University of Oregon. George Fox College 1953-54; 63-

## FACULTY EMERITI

MACKEY W. HILL, Professor of History. B.A., University of California at Los Angeles; M.A., University of the Pacific. George Fox College 1949-74.

CECILIA C. MARTIN, Professor of Language Arts. B.A., M.A., Ph.D., University of Washington. George Fox College 1954-73.

PAUL M. MILLS, *Professor of Bible*. B.A., Th.B., Th.M., Northwest Nazarene College. George Fox College 1947-74.

GEORGE H. MOORE, *Professor of Psychology*. B.A., Adrian College; M.Ed., University of Oregon; Ph.D., University of Iowa. George Fox College 1943-47; 61-75.

OLIVER WEESNER, *Professor of Mathematics*. B.S., Earlham College. George Fox College 1909-52.

## PART-TIME FACULTY

This register is composed of those teaching less than full time at George Fox College in the 1975-76 college year:

JAMES E. ANNALA, *Music*. B.M., Lewis and Clark College; M.M., University of Portland. George Fox College 1968-

ROY P. CLARK, *Extension Program Director*. Th.B., Marion College; B.A., Friends University; M.Mus.Ed., University of Portland. George Fox College 1944-50; 68-

GARY K. FAWVER, *Christian Ministries*. A.B., Wheaton College; M.Div., Th.M., Gordon-Conwell Theological Seminary. George Fox College 1974-

RICHARD J. FOSTER, *Bible and Religion*. B.A., George Fox College; D.Th.P., Fuller Theological Seminary. George Fox College 1974-

DARLENE R. GRAVES, *Communication Arts*. B.A., Biola College; M.A., California State University at Los Angeles. George Fox College 1974-

MARY S. GREEN, *Mathematics*. A.B., Houghton College; M.N., Case Western Reserve University; Graduate Studies, University of Wyoming. George Fox College 1973-

JANET E. HAGEN, *Music*. B.A., Whitworth College; M.M.E., Indiana University. George Fox College 1964-

BARRY HUBBELL, *Journalism*. B.A., George Fox College. George Fox College 1967-

CHRIS LAUINGER, *Music*. B.M., University of Rochester; M.M., Doctoral Studies, Indiana University. George Fox College 1963-66; 67-69; 71-

EVAN REMPEL, *Mathematics and Physics, Computer Programer*. B.A., M.A., Montana State College. George Fox College 1954-

JANICE L. RHOADS, *Music*. B.S., Western Baptist Bible College and Seminary; Graduate Studies, University of Oregon. George Fox College 1974-

LANA L. STANLEY, *English*. B.A., Malone College; M.A., Portland State College. George Fox College 1970-73; 75-

## ADMINISTRATIVE OFFICERS

DAVID C. LE SHANA, Ph.D. . . . . President

WILLIAM D. GREEN, Ed.D. . . . Dean of the College

DONALD J. MILLAGE, CPA, B.A. . . Business Manager

EUGENE B. HABECKER, J.D. . . . . Dean of Students

MAURICE G. CHANDLER, B.A. . . . . Director of

Development

HAROLD A. ANKENY, B.A. . . Director of Financial Aid and Institutional Research

## ADMINISTRATIVE STAFF

HARVEY CAMPBELL, M.A., Registrar

EVERETT COOK, Director of Custodial Services

RONALD S. CRECELIUS, M.A., Director of Religious Services

GARY K. FAWVER, Th.M., Director of Camp Tilikum

M. GENE HOCKETT, M.Div., Director of Alumni and Church Relations

ANDREA HOERLING, B.A., Admissions Counselor

BARRY HUBBELL, B.A., Director of College Relations

BRUCE HUFFMAN, B.A., Associate Director of Development

WILLIAM LOEWEN, M.A., Manager of Bookstores

STUART M. RICHEY, Director of Physical Plant

RONALD RITTENHOUSE, B.A., Admissions Counselor

JIM SETTLE, B.A., Director of Admissions

RANDY WINSTON, B.A., Admissions Counselor

## **BOARD OF TRUSTEES**

### **For Three Years Ending August, 1976**

CHARLES A. BEALS, Newberg, Retired Minister  
JOHN C. BROUGHER, Vancouver, Washington,  
Physician  
GERALD W. DILLON, Gladstone, Seminary Professor  
WALTER P. DYKE, McMinnville, Electronics  
Corporation Executive  
M. LOWELL EDWARDS, Santa Ana, California,  
Engineer-Inventor  
SAM A. FARMER, Glen Ellyn, Illinois, Food Company  
Executive  
C. WILBUR FIELD, JR., Portland, Food Company  
Executive  
HOMER HESTER, Newberg, Dentist  
CLAUDE A. LEWIS, Central Point, Dentist  
ROBERT MONROE, Tigard, Consulting Engineer  
DONALD McNICHOLS, Seattle, Washington, College  
Professor  
ROGER M. MINTHORNE, Lake Oswego, Electronics  
Manufacturer Executive  
J. ARNOLD OWEN, Berkeley, California, Printing  
Company Executive  
DORWIN E. SMITH, Tigard, Minister

### **For Three Years Ending August, 1977**

IVAN L. ADAMS, Portland, Bank Executive  
RICHARD BEEBE, Eugene, Superintendent of Schools  
KARA L. COLE, Portland, Administrator for Medical  
Laboratories  
ELIZABETH EDWARDS, Newberg, Retired Social  
Welfare Worker  
WILBERT B. EICHENBERGER, Santa Ana, California,  
Church Executive  
PHILIP E. HARMON, Seattle, Washington, Insurance  
Executive  
STANLEY D. KERN, Newberg, Physician and Surgeon  
DAVID M. LEACH, Seattle, Washington, Minister  
THELMA MARTIN, Caldwell, Idaho, Businesswoman  
JAMES MILLER, Portland, Investments  
KEITH SARVER, Whittier, California, General  
Superintendent, California Yearly Meeting

FLOYD H. WATSON, Eugene, Bank Executive  
JACK L. WILLCUTS, Portland, Minister  
NORMAN WINTERS, Nampa, Idaho, High School  
Administrator

### **For Three Years Ending August, 1978**

JOHN E. ALMOND, Tacoma, Washington, Executive  
Suite Manager  
FREDERICK B. BAKER, Tacoma, Washington,  
Retired Minister  
V. A. BALLANTYNE, Indianapolis, Indiana, Executive  
Secretary of the Evangelical Church of North  
America  
WILLIAM H. BAUMAN, Lebanon, Lumber Company  
Executive  
T. EUGENE COFFIN, Whittier, California, Minister  
THEODORE W. ENGSTROM, Arcadia, California,  
Missions Executive  
RALPH GREENIDGE, Seattle, Washington, Minister  
MARK O. HATFIELD, Bethesda, Maryland, United  
States Senator  
MICHAEL JARVILL, Eugene, Attorney  
WALTER P. LEE, Star, Idaho, Minister  
CHARLOTTE L. MACY, Rockaway, Youth Camp  
Executive Director  
PHILIP W. MARTIN, Whittier, California, Business  
Executive  
WAYNE E. ROBERTS, Central Point, Physician  
WALTER E. WILHITE, Boise, Idaho, Investment  
Consultant

### **Honorary**

J. EMEL SWANSON, Springfield, Retired

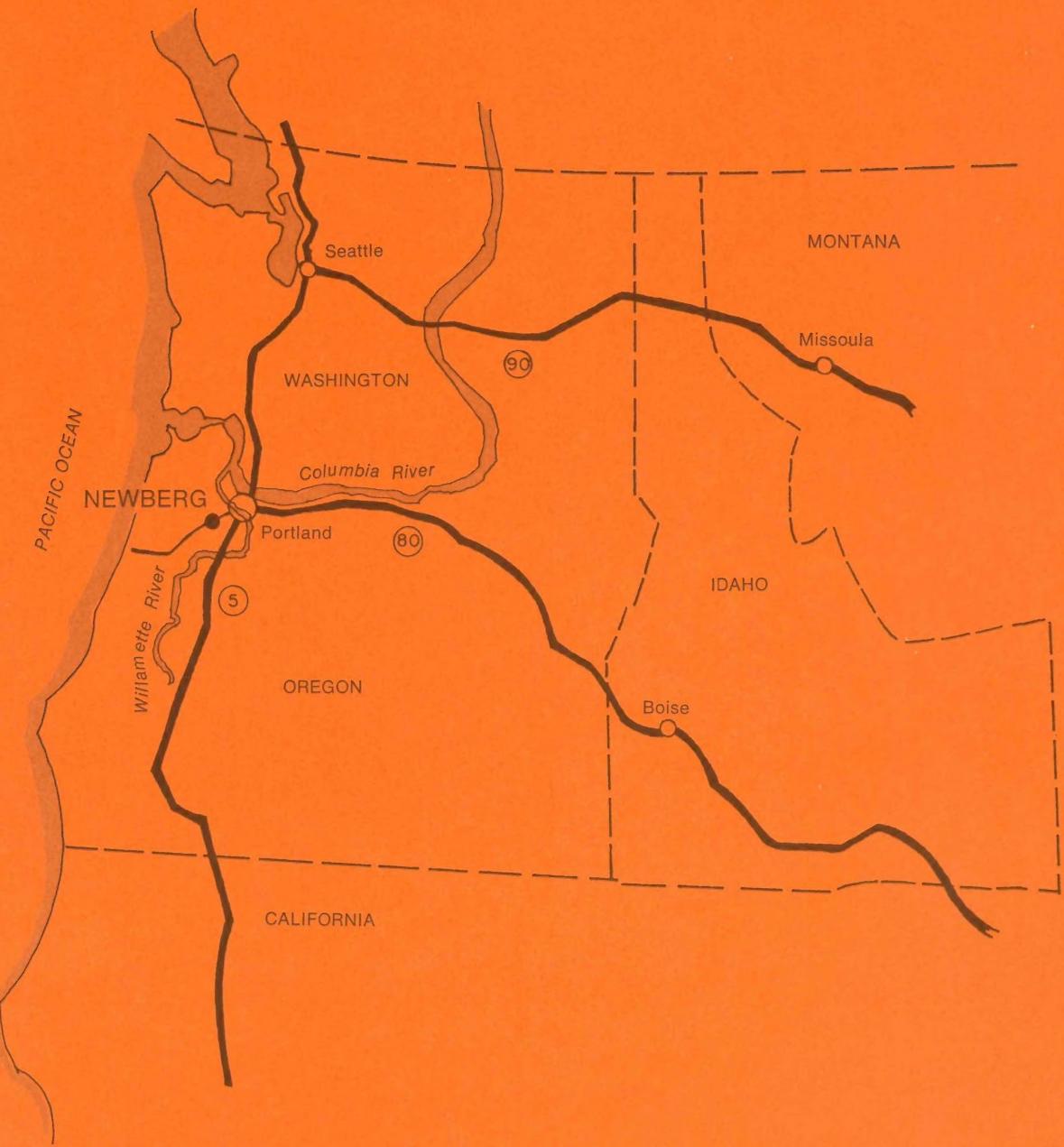
### **Ex Officio**

NORVAL HADLEY, Newberg, Superintendent of  
Northwest Yearly Meeting of Friends Church  
DAVID C. Le SHANA, Newberg, President of George  
Fox College

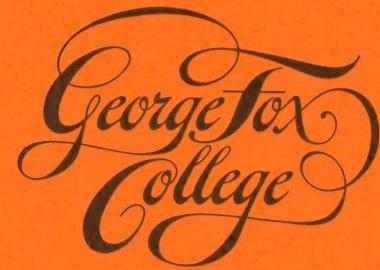
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